DEPAKOTE- divalproex sodium tablet, delayed release
AbbVie Inc.

HIGHLIGHTS OF PRESCRIBING INFORMATION
These highlights do not include all the information needed to use Depakote safely and effectively. See full prescribing information for Depakote.

Depakote (divalproex sodium) delayed-release tablets, for oral use
Initial U.S. Approval: 1983

WARNING: LIFE THREATENING ADVERSE REACTIONS

See full prescribing information for complete boxed warning.

- **Hepatotoxicity, including fatalities, usually during the first 6 months of treatment. Children under the age of two years and patients with mitochondrial disorders are at higher risk. Monitor patients closely, and perform serum liver testing prior to therapy and at frequent intervals thereafter (5.1)**
- **Fetal Risk, particularly neural tube defects, other major malformations, and decreased IQ (5.2, 5.3, 5.4)**
- **Pancreatitis, including fatal hemorrhagic cases (5.5)**

RECENT MAJOR CHANGES

Contraindications (4)	5/2025
Warnings and Precautions (5.2, 5.3)	3/2026
Warnings and Precautions (5.13, 5.14)	5/2025

INDICATIONS AND USAGE

Depakote is an anti-epileptic drug indicated for:

- Treatment of manic episodes associated with bipolar disorder (1.1)
- Monotherapy and adjunctive therapy of complex partial seizures and simple and complex absence seizures; adjunctive therapy in patients with multiple seizure types that include absence seizures (1.2)
- Prophylaxis of migraine headaches (1.3)

DOSAGE AND ADMINISTRATION

- Depakote is administered orally in divided doses. Depakote should be swallowed whole and should not be crushed or chewed (2.1, 2.2).
- Mania: Initial dose is 750 mg daily, increasing as rapidly as possible to achieve therapeutic response or desired plasma level (2.1). The maximum recommended dosage is 60 mg/kg/day (2.1, 2.2).
- Complex Partial Seizures: Start at 10 to 15 mg/kg/day, increasing at 1 week intervals by 5 to 10 mg/kg/day to achieve optimal clinical response; if response is not satisfactory, check valproate plasma level; see full prescribing information for conversion to monotherapy (2.2). The maximum recommended dosage is 60 mg/kg/day (2.1, 2.2).
- Absence Seizures: Start at 15 mg/kg/day, increasing at 1 week intervals by 5 to 10 mg/kg/day until seizure control or limiting side effects (2.2). The maximum recommended dosage is 60 mg/kg/day (2.1, 2.2).
- Migraine: The recommended starting dose is 250 mg twice daily, thereafter increasing to a maximum of 1,000 mg/day as needed (2.3).

DOSAGE FORMS AND STRENGTHS

Tablets: 125 mg, 250 mg and 500 mg (3)

CONTRAINDICATIONS

- Hepatic disease or significant hepatic dysfunction (4, 5.1)
- Known mitochondrial disorders caused by mutations in mitochondrial DNA polymerase γ (POLG) (4, 5.1)
- Suspected POLG-related disorder in children under two years of age (4, 5.1)
- Known hypersensitivity to divalproex sodium, sodium valproate, or valproic acid (4, 5.12, 5.13, 5.14)

- Urea cycle disorders (4, 5.6)
- Prophylaxis of migraine headaches: Pregnant women, women of childbearing potential not using effective contraception (4, 8.1)

WARNINGS AND PRECAUTIONS

- Birth defects, decreased IQ, and neurodevelopmental disorders following in utero exposure: Should not be used to treat women with epilepsy or bipolar disorder who are pregnant or who plan to become pregnant or to treat a woman of childbearing potential unless other medications have failed to provide adequate symptom control or are otherwise unacceptable (5.2, 5.3, 5.4)
- Pancreatitis: Depakote should ordinarily be discontinued (5.5)
- Suicidal behavior or ideation: Antiepileptic drugs, including Depakote, increase the risk of suicidal thoughts or behavior (5.7)
- Bleeding and other hematopoietic disorders: Monitor platelet counts and coagulation tests (5.8)
- Hyperammonemia and hyperammonemic encephalopathy: Measure ammonia level if unexplained lethargy and vomiting or changes in mental status, and also with concomitant topiramate use; consider discontinuation of valproate therapy (5.6, 5.9, 5.10)
- Hypothermia: Hypothermia has been reported during valproate therapy with occur in patients using concomitant topiramate (5.11)
- Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS)/Multiorgan Hypersensitivity Reactions, serious dermatologic reactions, and angioedema: Discontinue Depakote unless an alternate etiology is established (4, 5.12, 5.13, 5.14)

ADVERSE REACTIONS

- Most common adverse reactions (reported ≥15% for any indication) are abdominal pain, alopecia, asthenia, diarrhea, diplopia, dizziness, headache, infection, insomnia, nausea, somnolence, thrombocytopenia, tremor, vomiting (6.1, 6.2, 6.3).
- The safety and tolerability of valproate in pediatric patients were shown to be comparable to those in adults (8.4).

To report SUSPECTED ADVERSE REACTIONS, contact AbbVie Inc. at 1-800-633-9110 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

DRUG INTERACTIONS

- Hepatic enzyme-inducing drugs (e.g., phenytoin, carbamazepine, phenobarbital, primidone, rifampin) can increase valproate clearance, while enzyme inhibitors (e.g., felbamate) can decrease valproate clearance. Therefore increased monitoring of valproate and concomitant drug concentrations and dosage adjustment are indicated whenever enzyme-inducing or inhibiting drugs are introduced or withdrawn (7.1)
- Aspirin, carbapenem antibiotics, estrogen-containing hormonal contraceptives, methotrexate: Monitoring of valproate concentrations is recommended (7.1)
- Co-administration of valproate can affect the pharmacokinetics of other drugs (e.g., diazepam, ethosuximide, lamotrigine, phenytoin) by inhibiting their metabolism or protein binding displacement (7.2)
- Patients stabilized on rufinamide should begin valproate therapy at a low dose, and titrate to clinically effective dose (7.2)
- Dosage adjustment of amitriptyline/nortriptyline, propofol, warfarin, and zidovudine may be necessary if used concomitantly with Depakote (7.2)
- Topiramate: Hyperammonemia and encephalopathy (5.10, 7.3)
- Cannabidiol: ALT and/or AST elevation (7.4)

USE IN SPECIFIC POPULATIONS

- Pregnancy: Depakote can cause congenital malformations including neural tube defects, decreased IQ, and neurodevelopmental disorders (5.2, 5.3, 8.1)
- Geriatric: Reduce starting dose; increase dosage more slowly; monitor fluid and nutritional intake, and somnolence (5.16, 8.5)

See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.

Revised: 3/2026

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FULL PRESCRIBING INFORMATION

WARNING: LIFE THREATENING ADVERSE REACTIONS

Hepatotoxicity

General Population: **Hepatic failure resulting in fatalities has occurred in patients receiving valproate and its derivatives. These incidents usually have occurred during the first six months of treatment. Serious or fatal hepatotoxicity may be preceded by non-specific symptoms such as malaise, weakness, lethargy, facial edema, anorexia, and vomiting. In patients with epilepsy, a loss of seizure control may also occur. Patients should be monitored closely for appearance of these symptoms. Serum liver tests should be performed prior to therapy and at frequent intervals thereafter, especially during the first six months *[see Warnings and Precautions (5.1)].***

Children under the age of two years are at a considerably increased risk of developing fatal hepatotoxicity, especially those on multiple anticonvulsants, those with congenital metabolic disorders, those with severe seizure disorders accompanied by mental retardation, and those with organic brain disease. When Depakote is used in this patient group, it should be used with extreme caution and as a sole agent. The benefits of therapy should be weighed against the risks. The incidence of fatal hepatotoxicity decreases considerably in progressively older patient groups.

Patients with Mitochondrial Disease: **There is an increased risk of valproate-induced acute liver failure and resultant deaths in patients with hereditary neurometabolic syndromes caused by DNA mutations of the mitochondrial DNA Polymerase γ (POLG) gene (e.g., Alpers Huttenlocher Syndrome). Depakote is contraindicated in patients known to have mitochondrial disorders caused by POLG mutations and children under two years of age who are clinically suspected of having a mitochondrial disorder *[see Contraindications (4)].* In patients over two years of age who are clinically suspected of having a hereditary mitochondrial disease, Depakote should only be used after other anticonvulsants have failed. This older group of patients should be closely monitored during treatment with Depakote for the development of acute liver injury with regular clinical assessments and serum liver testing. POLG mutation screening should be performed in accordance with current clinical practice *[see Warnings and Precautions (5.1)].***

Fetal Risk

Valproate can cause major congenital malformations, particularly neural tube defects (e.g., spina bifida). In addition, valproate can cause decreased IQ scores and neurodevelopmental disorders following in utero exposure.

Valproate is therefore contraindicated for prophylaxis of migraine headaches in pregnant women and in women of childbearing potential who are not using effective contraception *[see Contraindications (4)].* Valproate should not be used to treat women with epilepsy or bipolar disorder who are pregnant or who plan to become pregnant unless

other medications have failed to provide adequate symptom control or are otherwise unacceptable.

Valproate should not be administered to a woman of childbearing potential unless other medications have failed to provide adequate symptom control or are otherwise unacceptable. In such situations, effective contraception should be used *[see Warnings and Precautions (5.2, 5.3, 5.4)].*

A Medication Guide describing the risks of valproate is available for patients *[see Patient Counseling Information (17)].*

Pancreatitis

Cases of life-threatening pancreatitis have been reported in both children and adults receiving valproate. Some of the cases have been described as hemorrhagic with a rapid progression from initial symptoms to death. Cases have been reported shortly after initial use as well as after several years of use. Patients and guardians should be warned that abdominal pain, nausea, vomiting, and/or anorexia can be symptoms of pancreatitis that require prompt medical evaluation. If pancreatitis is diagnosed, valproate should ordinarily be discontinued. Alternative treatment for the underlying medical condition should be initiated as clinically indicated *[see Warnings and Precautions (5.5)].*

1 INDICATIONS AND USAGE

1.1 Mania

Depakote (divalproex sodium) is a valproate and is indicated for the treatment of the manic episodes associated with bipolar disorder. A manic episode is a distinct period of abnormally and persistently elevated, expansive, or irritable mood. Typical symptoms of mania include pressure of speech, motor hyperactivity, reduced need for sleep, flight of ideas, grandiosity, poor judgment, aggressiveness, and possible hostility.

The efficacy of Depakote was established in 3-week trials with patients meeting DSM-III-R criteria for bipolar disorder who were hospitalized for acute mania *[see Clinical Studies (14.1)]*.

The safety and effectiveness of Depakote for long-term use in mania, i.e., more than 3 weeks, has not been demonstrated in controlled clinical trials. Therefore, healthcare providers who elect to use Depakote for extended periods should continually reevaluate the long-term usefulness of the drug for the individual patient.

1.2 Epilepsy

Depakote is indicated as monotherapy and adjunctive therapy in the treatment of patients with complex partial seizures that occur either in isolation or in association with other types of seizures. Depakote is also indicated for use as sole and adjunctive therapy in the treatment of simple and complex absence seizures, and adjunctively in patients with multiple seizure types that include absence seizures.

Simple absence is defined as very brief clouding of the sensorium or loss of

consciousness accompanied by certain generalized epileptic discharges without other detectable clinical signs. Complex absence is the term used when other signs are also present.

1.3 Migraine

Depakote is indicated for prophylaxis of migraine headaches. There is no evidence that Depakote is useful in the acute treatment of migraine headaches.

1.4 Important Limitations

Because of the risk to the fetus of decreased IQ, neurodevelopmental disorders, neural tube defects, and other major congenital malformations, which may occur very early in pregnancy, valproate should not be used to treat women with epilepsy or bipolar disorder who are pregnant or who plan to become pregnant unless other medications have failed to provide adequate symptom control or are otherwise unacceptable. Valproate should not be administered to a woman of childbearing potential unless other medications have failed to provide adequate symptom control or are otherwise unacceptable *[see Warnings and Precautions (5.2, 5.3, 5.4), Use in Specific Populations (8.1), and Patient Counseling Information (17)]*.

For prophylaxis of migraine headaches, Depakote is contraindicated in women who are pregnant and in women of childbearing potential who are not using effective contraception *[see Contraindications (4)]*.

2 DOSAGE AND ADMINISTRATION

Depakote tablets are intended for oral administration. Depakote tablets should be swallowed whole and should not be crushed or chewed.

Patients should be informed to take Depakote every day as prescribed. If a dose is missed it should be taken as soon as possible, unless it is almost time for the next dose. If a dose is skipped, the patient should not double the next dose.

2.1 Mania

Depakote tablets are administered orally. The recommended initial dose is 750 mg daily in divided doses. The dose should be increased as rapidly as possible to achieve the lowest therapeutic dose which produces the desired clinical effect or the desired range of plasma concentrations. In placebo-controlled clinical trials of acute mania, patients were dosed to a clinical response with a trough plasma concentration between 50 and 125 mcg/mL. Maximum concentrations were generally achieved within 14 days. The maximum recommended dosage is 60 mg/kg/day.

There is no body of evidence available from controlled trials to guide a clinician in the longer term management of a patient who improves during Depakote treatment of an acute manic episode. While it is generally agreed that pharmacological treatment beyond an acute response in mania is desirable, both for maintenance of the initial response and for prevention of new manic episodes, there are no data to support the benefits of Depakote in such longer-term treatment. Although there are no efficacy data that specifically address longer-term antimanic treatment with Depakote, the safety of Depakote in long-term use is supported by data from record reviews involving

approximately 360 patients treated with Depakote for greater than 3 months.

2.2 Epilepsy

Depakote tablets are administered orally. Depakote is indicated as monotherapy and adjunctive therapy in complex partial seizures in adults and pediatric patients down to the age of 10 years, and in simple and complex absence seizures. As the Depakote dosage is titrated upward, concentrations of clonazepam, diazepam, ethosuximide, lamotrigine, tolbutamide, phenobarbital, carbamazepine, and/or phenytoin may be affected *[see Drug Interactions (7.2)]*.

Complex Partial Seizures

For adults and children 10 years of age or older.

Monotherapy (Initial Therapy)

Depakote has not been systematically studied as initial therapy. Patients should initiate therapy at 10 to 15 mg/kg/day. The dosage should be increased by 5 to 10 mg/kg/week to achieve optimal clinical response. Ordinarily, optimal clinical response is achieved at daily doses below 60 mg/kg/day. If satisfactory clinical response has not been achieved, plasma levels should be measured to determine whether or not they are in the usually accepted therapeutic range (50 to 100 mcg/mL). No recommendation regarding the safety of valproate for use at doses above 60 mg/kg/day can be made.

The probability of thrombocytopenia increases significantly at total trough valproate plasma concentrations above 110 mcg/mL in females and 135 mcg/mL in males. The benefit of improved seizure control with higher doses should be weighed against the possibility of a greater incidence of adverse reactions.

Conversion to Monotherapy

Patients should initiate therapy at 10 to 15 mg/kg/day. The dosage should be increased by 5 to 10 mg/kg/week to achieve optimal clinical response. Ordinarily, optimal clinical response is achieved at daily doses below 60 mg/kg/day. If satisfactory clinical response has not been achieved, plasma levels should be measured to determine whether or not they are in the usually accepted therapeutic range (50-100 mcg/mL). No recommendation regarding the safety of valproate for use at doses above 60 mg/kg/day can be made. Concomitant antiepilepsy drug (AED) dosage can ordinarily be reduced by approximately 25% every 2 weeks. This reduction may be started at initiation of Depakote therapy, or delayed by 1 to 2 weeks if there is a concern that seizures are likely to occur with a reduction. The speed and duration of withdrawal of the concomitant AED can be highly variable, and patients should be monitored closely during this period for increased seizure frequency.

Adjunctive Therapy

Depakote may be added to the patient's regimen at a dosage of 10 to 15 mg/kg/day. The dosage may be increased by 5 to 10 mg/kg/week to achieve optimal clinical response. Ordinarily, optimal clinical response is achieved at daily doses below 60 mg/kg/day. If satisfactory clinical response has not been achieved, plasma levels should be measured to determine whether or not they are in the usually accepted therapeutic range (50 to 100 mcg/mL). No recommendation regarding the safety of valproate for use at doses above 60 mg/kg/day can be made. If the total daily dose exceeds 250 mg, it should be given in divided doses.

In a study of adjunctive therapy for complex partial seizures in which patients were receiving either carbamazepine or phenytoin in addition to valproate, no adjustment of carbamazepine or phenytoin dosage was needed *[see Clinical Studies (14.2)]*. However, since valproate may interact with these or other concurrently administered AEDs as well as other drugs, periodic plasma concentration determinations of concomitant AEDs are recommended during the early course of therapy *[see Drug Interactions (7)]*.

Simple and Complex Absence Seizures

The recommended initial dose is 15 mg/kg/day, increasing at one week intervals by 5 to 10 mg/kg/day until seizures are controlled or side effects preclude further increases. The maximum recommended dosage is 60 mg/kg/day. If the total daily dose exceeds 250 mg, it should be given in divided doses.

A good correlation has not been established between daily dose, serum concentrations, and therapeutic effect. However, therapeutic valproate serum concentrations for most patients with absence seizures is considered to range from 50 to 100 mcg/mL. Some patients may be controlled with lower or higher serum concentrations *[see Clinical Pharmacology (12.3)]*.

As the Depakote dosage is titrated upward, blood concentrations of phenobarbital and/or phenytoin may be affected *[see Drug Interactions (7.2)]*.

Antiepilepsy drugs should not be abruptly discontinued in patients in whom the drug is administered to prevent major seizures because of the strong possibility of precipitating status epilepticus with attendant hypoxia and threat to life.

In epileptic patients previously receiving valproic acid therapy, Depakote tablets should be initiated at the same daily dose and dosing schedule. After the patient is stabilized on Depakote tablets, a dosing schedule of two or three times a day may be elected in selected patients.

2.3 Migraine

Depakote is indicated for prophylaxis of migraine headaches in adults.

Depakote tablets are administered orally. The recommended starting dose is 250 mg twice daily. Some patients may benefit from doses up to 1,000 mg/day. In the clinical trials, there was no evidence that higher doses led to greater efficacy.

2.4 General Dosing Advice

Dosing in Elderly Patients

Due to a decrease in unbound clearance of valproate and possibly a greater sensitivity to somnolence in the elderly, the starting dose should be reduced in these patients. Dosage should be increased more slowly and with regular monitoring for fluid and nutritional intake, dehydration, somnolence, and other adverse reactions. Dose reductions or discontinuation of valproate should be considered in patients with decreased food or fluid intake and in patients with excessive somnolence. The ultimate therapeutic dose should be achieved on the basis of both tolerability and clinical response *[see Warnings and Precautions (5.16), Use in Specific Populations (8.5), and Clinical Pharmacology (12.3)]*.

Dose-Related Adverse Reactions

The frequency of adverse effects (particularly elevated liver enzymes and thrombocytopenia) may be dose-related. The probability of thrombocytopenia appears to increase significantly at total valproate concentrations of ≥ 110 mcg/mL (females) or ≥ 135 mcg/mL (males) *[see Warnings and Precautions (5.8)]*. The benefit of improved therapeutic effect with higher doses should be weighed against the possibility of a greater incidence of adverse reactions.

G.I. Irritation

Patients who experience G.I. irritation may benefit from administration of the drug with food or by slowly building up the dose from an initial low level.

2.5 Dosing in Patients Taking Rufinamide

Patients stabilized on rufinamide before being prescribed valproate should begin valproate therapy at a low dose, and titrate to a clinically effective dose *[see Drug Interactions (7.2)]*.

3 DOSAGE FORMS AND STRENGTHS

Depakote tablets (divalproex sodium delayed-release tablets) are supplied as:

- 125 mg salmon pink-colored tablets with the “a” logo and the code NT
- 125 mg salmon pink-colored tablets with the code NT
- 250 mg peach-colored tablets with the “a” logo and the code NR
- 250 mg peach-colored tablets with the code NR
- 500 mg lavender-colored tablets with the “a” logo and the code NS
- 500 mg lavender-colored tablets with the code NS

4 CONTRAINDICATIONS

Depakote is contraindicated in patients:

• with hepatic disease or significant hepatic dysfunction *[see Warnings and Precautions (5.1)]*.

• known to have mitochondrial disorders caused by mutations in mitochondrial DNA polymerase γ (POLG; e.g., Alpers-Huttenlocher Syndrome) and children under two years of age who are suspected of having a POLG-related disorder *[see Warnings and Precautions (5.1)]*.

• with known hypersensitivity to divalproex sodium, sodium valproate, or valproic acid. Reactions have included multiorgan hypersensitivity, serious dermatologic reactions, and angioedema *[see Warnings and Precautions (5.12, 5.13, 5.14)]*.

• with known urea cycle disorders *[see Warnings and Precautions (5.6)]*.

• being treated for prophylaxis of migraine headaches who are pregnant or in women of childbearing potential who are not using effective contraception *[see Warnings and Precautions (5.2, 5.3, 5.4) and Use in Specific Populations (8.1)]*.

5 WARNINGS AND PRECAUTIONS

5.1 Hepatotoxicity

General Information on Hepatotoxicity

Hepatic failure resulting in fatalities has occurred in patients receiving valproate. These incidents usually have occurred during the first six months of treatment. Serious or fatal hepatotoxicity may be preceded by non-specific symptoms such as malaise, weakness, lethargy, facial edema, anorexia, and vomiting. In patients with epilepsy, a loss of seizure control may also occur. Patients should be monitored closely for appearance of these symptoms. Serum liver tests should be performed prior to therapy and at frequent intervals thereafter, especially during the first six months of valproate therapy. However, healthcare providers should not rely totally on serum biochemistry since these tests may not be abnormal in all instances, but should also consider the results of careful interim medical history and physical examination.

Caution should be observed when administering valproate products to patients with a prior history of hepatic disease. Patients on multiple anticonvulsants, children, those with congenital metabolic disorders, those with severe seizure disorders accompanied by mental retardation, and those with organic brain disease may be at particular risk. See below, “Patients with Known or Suspected Mitochondrial Disease.”

Experience has indicated that children under the age of two years are at a considerably increased risk of developing fatal hepatotoxicity, especially those with the aforementioned conditions. When Depakote is used in this patient group, it should be used with extreme caution and as a sole agent. The benefits of therapy should be weighed against the risks. In progressively older patient groups experience in epilepsy has indicated that the incidence of fatal hepatotoxicity decreases considerably.

Patients with Known or Suspected Mitochondrial Disease

Depakote is contraindicated in patients known to have mitochondrial disorders caused by POLG mutations and children under two years of age who are clinically suspected of having a mitochondrial disorder *[see Contraindications (4)]*. Valproate-induced acute liver failure and liver-related deaths have been reported in patients with hereditary neurometabolic syndromes caused by mutations in the gene for mitochondrial DNA polymerase γ (POLG) (e.g., Alpers-Huttenlocher Syndrome) at a higher rate than those without these syndromes. Most of the reported cases of liver failure in patients with these syndromes have been identified in children and adolescents.

POLG-related disorders should be suspected in patients with a family history or suggestive symptoms of a POLG-related disorder, including but not limited to unexplained encephalopathy, refractory epilepsy (focal, myoclonic), status epilepticus at presentation, developmental delays, psychomotor regression, axonal sensorimotor neuropathy, myopathy cerebellar ataxia, ophthalmoplegia, or complicated migraine with occipital aura. POLG mutation testing should be performed in accordance with current clinical practice for the diagnostic evaluation of such disorders. The A467T and W748S mutations are present in approximately 2/3 of patients with autosomal recessive POLG-related disorders.

In patients over two years of age who are clinically suspected of having a hereditary mitochondrial disease, Depakote should only be used after other anticonvulsants have failed. This older group of patients should be closely monitored during treatment with Depakote for the development of acute liver injury with regular clinical assessments and serum liver test monitoring.

The drug should be discontinued immediately in the presence of significant hepatic dysfunction, suspected or apparent. In some cases, hepatic dysfunction has progressed in spite of discontinuation of drug *[see Boxed Warning and Contraindications (4)]*.

5.2 Structural Birth Defects

Valproate can cause fetal harm when administered to a pregnant woman. Pregnancy registry data show that maternal valproate use can cause neural tube defects and other structural abnormalities (e.g., craniofacial defects, cardiovascular malformations, hypospadias, limb malformations). The rate of congenital malformations among babies born to mothers using valproate is about four times higher than the rate among babies born to epileptic mothers using other anti-seizure monotherapies. Evidence suggests that folic acid supplementation prior to conception and during the first trimester of pregnancy decreases the risk for congenital neural tube defects in the general population *[see Use in Specific Populations (8.1)]*.

In animal studies, offspring with prenatal exposure to valproate had malformations similar to those seen in humans *[see Use in Specific Populations (8.1)]*.

5.3 Decreased IQ and Neurodevelopmental Disorders Following in utero Exposure

Valproate can cause decreased IQ scores following in utero exposure. Published epidemiological studies have indicated that children exposed to valproate in utero have lower cognitive test scores than children exposed in utero to either another antiepileptic drug or to no antiepileptic drugs. The largest of these studies[1] is a prospective cohort study conducted in the United States and United Kingdom that found that children with prenatal exposure to valproate (n=62) had lower IQ scores at age 6 (97 [95% CI 94-101]) than children with prenatal exposure to the other antiepileptic drug monotherapy treatments evaluated: lamotrigine (108 [95% CI 105–110]), carbamazepine (105 [95% CI 102–108]), and phenytoin (108 [95% CI 104–112]). Because the women in this study were exposed to antiepileptic drugs throughout pregnancy, whether the risk for decreased IQ was related to a particular time period during pregnancy could not be assessed.

Although all of the available studies have methodological limitations, the weight of the evidence supports the conclusion that valproate exposure in utero can cause decreased IQ in children.

Epidemiological studies have also suggested that exposure to valproate monotherapy in utero may be associated with an increased risk of autism spectrum disorder (ASD), intellectual disability (ID, defined as an IQ < 70), and attention deficit/hyperactivity disorder (ADHD) *[see Use in Specific Populations (8.1)]*.

In animal studies, offspring with prenatal exposure to valproate demonstrated neurobehavioral deficits *[see Use in Specific Populations (8.1)]*.

5.4 Use in Women of Childbearing Potential

Because of the risk to the fetus of decreased IQ, neurodevelopmental disorders, and major congenital malformations (including neural tube defects), which may occur very early in pregnancy, valproate should not be administered to a woman of childbearing

potential unless other medications have failed to provide adequate symptom control or are otherwise unacceptable. This is especially important when valproate use is considered for a condition not usually associated with permanent injury or death such as prophylaxis of migraine headaches *[see Contraindications (4)]*. Women should use effective contraception while using valproate.

Women of childbearing potential should be counseled regularly regarding the relative risks and benefits of valproate use during pregnancy. This is especially important for women planning a pregnancy and for girls at the onset of puberty; alternative therapeutic options should be considered for these patients *[see Boxed Warning and Use in Specific Populations (8.1)]*.

To prevent major seizures, valproate should not be discontinued abruptly, as this can precipitate status epilepticus with resulting maternal and fetal hypoxia and threat to life.

Evidence suggests that folic acid supplementation prior to conception and during the first trimester of pregnancy decreases the risk for congenital neural tube defects in the general population. It is not known whether the risk of neural tube defects or decreased IQ in the offspring of women receiving valproate is reduced by folic acid supplementation. Dietary folic acid supplementation both prior to conception and during pregnancy should be routinely recommended for women of childbearing potential using valproate.

5.5 Pancreatitis

Cases of life-threatening pancreatitis have been reported in both children and adults receiving valproate. Some of the cases have been described as hemorrhagic with rapid progression from initial symptoms to death. Some cases have occurred shortly after initial use as well as after several years of use. The rate based upon the reported cases exceeds that expected in the general population and there have been cases in which pancreatitis recurred after rechallenge with valproate. In clinical trials, there were 2 cases of pancreatitis without alternative etiology in 2,416 patients, representing 1,044 patient-years experience. Patients and guardians should be warned that abdominal pain, nausea, vomiting, and/or anorexia can be symptoms of pancreatitis that require prompt medical evaluation. If pancreatitis is diagnosed, Depakote should ordinarily be discontinued. Alternative treatment for the underlying medical condition should be initiated as clinically indicated *[see Boxed Warning]*.

5.6 Urea Cycle Disorders

Depakote is contraindicated in patients with known urea cycle disorders (UCD).

Hyperammonemic encephalopathy, sometimes fatal, has been reported following initiation of valproate therapy in patients with urea cycle disorders, a group of uncommon genetic abnormalities, particularly ornithine transcarbamylase deficiency. Prior to the initiation of Depakote therapy, evaluation for UCD should be considered in the following patients: 1) those with a history of unexplained encephalopathy or coma, encephalopathy associated with a protein load, pregnancy-related or postpartum encephalopathy, unexplained mental retardation, or history of elevated plasma ammonia or glutamine; 2) those with cyclical vomiting and lethargy, episodic extreme irritability, ataxia, low BUN, or protein avoidance; 3) those with a family history of UCD or a family history of unexplained infant deaths (particularly males); 4) those with other signs or symptoms of UCD. Patients who develop symptoms of unexplained hyperammonemic

encephalopathy while receiving valproate therapy should receive prompt treatment (including discontinuation of valproate therapy) and be evaluated for underlying urea cycle disorders *[see Contraindications (4) and Warnings and Precautions (5.10)]*.

5.7 Suicidal Behavior and Ideation

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

Pooled analyses of 199 placebo-controlled clinical trials (mono- and adjunctive therapy) of 11 different AEDs showed that patients randomized to one of the AEDs had approximately twice the risk (adjusted Relative Risk 1.8, 95% CI:1.2, 2.7) of suicidal thinking or behavior compared to patients randomized to placebo. In these trials, which had a median treatment duration of 12 weeks, the estimated incidence rate of suicidal behavior or ideation among 27,863 AED-treated patients was 0.43%, compared to 0.24% among 16,029 placebo-treated patients, representing an increase of approximately one case of suicidal thinking or behavior for every 530 patients treated. There were four suicides in drug-treated patients in the trials and none in placebo-treated patients, but the number is too small to allow any conclusion about drug effect on 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 1 shows absolute and relative risk by indication for all evaluated AEDs.

Table 1. 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 Patients with Events Per 1,000 Patients
Epilepsy	1.0	3.4	3.5	2.4
Psychiatric	5.7	8.5	1.5	2.9
Other	1.0	1.8	1.9	0.9
Total	2.4	4.3	1.8	1.9

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

were similar for the epilepsy and psychiatric indications.

Anyone considering prescribing Depakote 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.

5.8 Bleeding and Other Hematopoietic Disorders

Valproate is associated with dose-related thrombocytopenia. In a clinical trial of valproate as monotherapy in patients with epilepsy, 34/126 patients (27%) receiving approximately 50 mg/kg/day on average, had at least one value of platelets ≤ 75 x 10^9/L. Approximately half of these patients had treatment discontinued, with return of platelet counts to normal. In the remaining patients, platelet counts normalized with continued treatment. In this study, the probability of thrombocytopenia appeared to increase significantly at total valproate concentrations of ≥ 110 mcg/mL (females) or ≥ 135 mcg/mL (males). The therapeutic benefit which may accompany the higher doses should therefore be weighed against the possibility of a greater incidence of adverse effects. Valproate use has also been associated with decreases in other cell lines and myelodysplasia.

Because of reports of cytopenias, inhibition of the secondary phase of platelet aggregation, and abnormal coagulation parameters, (e.g., low fibrinogen, coagulation factor deficiencies, acquired von Willebrand's disease), measurements of complete blood counts and coagulation tests are recommended before initiating therapy and at periodic intervals. It is recommended that patients receiving Depakote be monitored for blood counts and coagulation parameters prior to planned surgery and during pregnancy *[see Use in Specific Populations (8.1)]*. Evidence of hemorrhage, bruising, or a disorder of hemostasis/coagulation is an indication for reduction of the dosage or withdrawal of therapy.

5.9 Hyperammonemia

Hyperammonemia has been reported in association with valproate therapy and may be present despite normal liver function tests. In patients who develop unexplained lethargy and vomiting or changes in mental status, hyperammonemic encephalopathy should be considered and an ammonia level should be measured. Hyperammonemia should also be considered in patients who present with hypothermia *[see Warnings and Precautions (5.11)]*. If ammonia is increased, valproate therapy should be discontinued. Appropriate interventions for treatment of hyperammonemia should be initiated, and such patients should undergo investigation for underlying urea cycle disorders *[see Contraindications (4) and Warnings and Precautions (5.6, 5.10)]*.

Asymptomatic elevations of ammonia are more common and when present, require close monitoring of plasma ammonia levels. If the elevation persists, discontinuation of valproate therapy should be considered.

5.10 Hyperammonemia and Encephalopathy Associated with Concomitant Topiramate Use

Concomitant administration of topiramate and valproate has been associated with hyperammonemia with or without encephalopathy in patients who have tolerated either drug alone. Clinical symptoms of hyperammonemic encephalopathy often include acute alterations in level of consciousness and/or cognitive function with lethargy or vomiting. Hypothermia can also be a manifestation of hyperammonemia *[see Warnings and Precautions (5.11)]*. In most cases, symptoms and signs abated with discontinuation of either drug. This adverse reaction is not due to a pharmacokinetic interaction. Patients with inborn errors of metabolism or reduced hepatic mitochondrial activity may be at an increased risk for hyperammonemia with or without encephalopathy. Although not studied, an interaction of topiramate and valproate may exacerbate existing defects or unmask deficiencies in susceptible persons. In patients who develop unexplained lethargy, vomiting, or changes in mental status, hyperammonemic encephalopathy should be considered and an ammonia level should be measured *[see Contraindications (4) and Warnings and Precautions (5.6, 5.9)]*.

5.11 Hypothermia

Hypothermia, defined as an unintentional drop in body core temperature to <35°C (95°F), has been reported in association with valproate therapy both in conjunction with and in the absence of hyperammonemia. This adverse reaction can also occur in patients using concomitant topiramate with valproate after starting topiramate treatment or after increasing the daily dose of topiramate *[see Drug Interactions (7.3)]*. Consideration should be given to stopping valproate in patients who develop hypothermia, which may be manifested by a variety of clinical abnormalities including lethargy, confusion, coma, and significant alterations in other major organ systems such as the cardiovascular and respiratory systems. Clinical management and assessment should include examination of blood ammonia levels.

5.12 Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS)/Multiorgan Hypersensitivity Reactions

Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS), also known as multiorgan hypersensitivity, has been reported in patients taking valproate. DRESS may be fatal or life-threatening. DRESS typically, although not exclusively, presents with fever, rash, lymphadenopathy, and/or facial swelling, in association with other organ system involvement, such as hepatitis, nephritis, hematological abnormalities, myocarditis, or myositis sometimes resembling an acute viral infection. Eosinophilia is often present. Because this disorder is variable in its expression, other organ systems not noted here may be involved. It 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. Valproate should be discontinued if an alternative etiology for the signs or symptoms cannot be established.

5.13 Serious Dermatologic Reactions

Serious and sometimes fatal dermatologic reactions, including toxic epidermal necrolysis (TEN), Stevens Johnson syndrome (SJS), acute generalized exanthematous pustulosis (AGEP), and erythema multiforme (EM) have been reported with valproate treatment. Valproate should be discontinued at the first sign of a rash, unless the rash is clearly not drug related. If a rash occurs, the patient should be evaluated for signs and symptoms

of Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS) *[see Warnings and Precautions (5.12)]*. If signs or symptoms suggest TEN/SJS/AGEP/EM, use of this drug should not be resumed, and alternative therapy should be considered.

5.14 Angioedema

Angioedema has been reported in patients treated with valproate in the postmarketing setting. Valproate should be discontinued immediately if symptoms of angioedema such as facial, perioral, or upper airway swelling occur. Valproate should be discontinued permanently if a clear alternative etiology for the reaction cannot be established *[see Contraindications (4)]*.

5.15 Interaction with Carbapenem Antibiotics

Carbapenem antibiotics (for example, ertapenem, imipenem, meropenem; this is not a complete list) may reduce serum valproate concentrations to subtherapeutic levels, resulting in loss of seizure control. Serum valproate concentrations should be monitored frequently after initiating carbapenem therapy. Alternative antibacterial or anticonvulsant therapy should be considered if serum valproate concentrations drop significantly or seizure control deteriorates *[see Drug Interactions (7.1)]*.

5.16 Somnolence in the Elderly

In a double-blind, multicenter trial of valproate in elderly patients with dementia (mean age = 83 years), doses were increased by 125 mg/day to a target dose of 20 mg/kg/day. A significantly higher proportion of valproate patients had somnolence compared to placebo, and although not statistically significant, there was a higher proportion of patients with dehydration. Discontinuations for somnolence were also significantly higher than with placebo. In some patients with somnolence (approximately one-half), there was associated reduced nutritional intake and weight loss. There was a trend for the patients who experienced these events to have a lower baseline albumin concentration, lower valproate clearance, and a higher BUN. In elderly patients, dosage should be increased more slowly and with regular monitoring for fluid and nutritional intake, dehydration, somnolence, and other adverse reactions. Dose reductions or discontinuation of valproate should be considered in patients with decreased food or fluid intake and in patients with excessive somnolence *[see Dosage and Administration (2.4)]*.

5.17 Monitoring: Drug Plasma Concentration

Since valproate may interact with concurrently administered drugs which are capable of enzyme induction, periodic plasma concentration determinations of valproate and concomitant drugs are recommended during the early course of therapy *[see Drug Interactions (7)]*.

5.18 Effect on Ketone and Thyroid Function Tests

Valproate is partially eliminated in the urine as a keto-metabolite which may lead to a false interpretation of the urine ketone test.

There have been reports of altered thyroid function tests associated with valproate. The clinical significance of these is unknown.

5.19 Effect on HIV and CMV Viruses Replication

There are *in vitro* studies that suggest valproate stimulates the replication of the HIV and CMV viruses under certain experimental conditions. The clinical consequence, if any, is not known. Additionally, the relevance of these *in vitro* findings is uncertain for patients receiving maximally suppressive antiretroviral therapy. Nevertheless, these data should be borne in mind when interpreting the results from regular monitoring of the viral load in HIV infected patients receiving valproate or when following CMV infected patients clinically.

5.20 Medication Residue in the Stool

There have been rare reports of medication residue in the stool. Some patients have had anatomic (including ileostomy or colostomy) or functional gastrointestinal disorders with shortened GI transit times. In some reports, medication residues have occurred in the context of diarrhea. It is recommended that plasma valproate levels be checked in patients who experience medication residue in the stool, and patients' clinical condition should be monitored. If clinically indicated, alternative treatment may be considered.

6 ADVERSE REACTIONS

The following serious adverse reactions are described below and elsewhere in the labeling:

- Hepatic Failure *[see Warnings and Precautions (5.1)]*
- Birth Defects *[see Warnings and Precautions (5.2)]*
- Decreased IQ and Neurodevelopmental Disorders Following in utero Exposure *[see Warnings and Precautions (5.3)]*
- Pancreatitis *[see Warnings and Precautions (5.5)]*
- Hyperammonemic Encephalopathy *[see Warnings and Precautions (5.6, 5.9, 5.10)]*
- Suicidal Behavior and Ideation *[see Warnings and Precautions (5.7)]*
- Bleeding and Other Hematopoietic Disorders *[see Warnings and Precautions (5.8)]*
- Hypothermia *[see Warnings and Precautions (5.11)]*
- Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS)/Multiorgan Hypersensitivity Reactions *[see Warnings and Precautions (5.12)]*
- Serious Dermatologic Reactions *[see Warnings and Precautions (5.13)]*
- Angioedema *[see Warnings and Precautions (5.14)]*
- Somnolence in the Elderly *[see Warnings and Precautions (5.16)]*

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

6.1 Mania

The incidence of treatment-emergent events has been ascertained based on combined data from two three week placebo-controlled clinical trials of Depakote in the treatment of manic episodes associated with bipolar disorder. The adverse reactions were usually mild or moderate in intensity, but sometimes were serious enough to interrupt treatment. In clinical trials, the rates of premature termination due to intolerance were not statistically different between placebo, Depakote, and lithium carbonate. A total of 4%, 8% and 11% of patients discontinued therapy due to intolerance in the placebo,

Depakote, and lithium carbonate groups, respectively.

Table 2 summarizes those adverse reactions reported for patients in these trials where the incidence rate in the Depakote-treated group was greater than 5% and greater than the placebo incidence, or where the incidence in the Depakote-treated group was statistically significantly greater than the placebo group. Vomiting was the only reaction that was reported by significantly ($p \leq 0.05$) more patients receiving Depakote compared to placebo.

Table 2. Adverse Reactions Reported by > 5% of Depakote-Treated Patients During Placebo-Controlled Trials of Acute Mania[1]

Adverse Reaction	Depakote (n = 89) %	Placebo (n = 97) %
Nausea	22	15
Somnolence	19	12
Dizziness	12	4
Vomiting	12	3
Accidental Injury	11	5
Asthenia	10	7
Abdominal Pain	9	8
Dyspepsia	9	8
Rash	6	3

[1] The following adverse reactions occurred at an equal or greater incidence for placebo than for Depakote: back pain, headache, constipation, diarrhea, tremor, and pharyngitis.

The following additional adverse reactions were reported by greater than 1% but not more than 5% of the 89 Depakote-treated patients in controlled clinical trials:

Body as a Whole: Chest pain, chills, chills and fever, fever, neck pain, neck rigidity.

Cardiovascular System: Hypertension, hypotension, palpitations, postural hypotension, tachycardia, vasodilation.

Digestive System: Anorexia, fecal incontinence, flatulence, gastroenteritis, glossitis, periodontal abscess.

Hemic and Lymphatic System: Ecchymosis.

Metabolic and Nutritional Disorders: Edema, peripheral edema.

Musculoskeletal System: Arthralgia, arthrosis, leg cramps, twitching.

Nervous System: Abnormal dreams, abnormal gait, agitation, ataxia, catatonic reaction, confusion, depression, diplopia, dysarthria, hallucinations, hypertonia, hypokinesia, insomnia, paresthesia, reflexes increased, tardive dyskinesia, thinking abnormalities, vertigo.

Respiratory System: Dyspnea, rhinitis.

Skin and Appendages: Alopecia, discoid lupus erythematosus, dry skin, furunculosis,

maculopapular rash, seborrhea.

Special Senses: Amblyopia, conjunctivitis, deafness, dry eyes, ear pain, eye pain, tinnitus.

Urogenital System: Dysmenorrhea, dysuria, urinary incontinence.

6.2 Epilepsy

Based on a placebo-controlled trial of adjunctive therapy for treatment of complex partial seizures, Depakote was generally well tolerated with most adverse reactions rated as mild to moderate in severity. Intolerance was the primary reason for discontinuation in the Depakote-treated patients (6%), compared to 1% of placebo-treated patients.

Table 3 lists treatment-emergent adverse reactions which were reported by ≥ 5% of Depakote-treated patients and for which the incidence was greater than in the placebo group, in the placebo-controlled trial of adjunctive therapy for treatment of complex partial seizures. Since patients were also treated with other antiepilepsy drugs, it is not possible, in most cases, to determine whether the following adverse reactions can be ascribed to Depakote alone, or the combination of Depakote and other antiepilepsy drugs.

Table 3. Adverse Reactions Reported by ≥ 5% of Patients Treated with Depakote During Placebo-Controlled Trial of Adjunctive Therapy for Complex Partial Seizures

Body System/Reaction	Depakote (n = 77) %	Placebo (n = 70) %
Body as a Whole		
Headache	31	21
Asthenia	27	7
Fever	6	4
Gastrointestinal System		
Nausea	48	14
Vomiting	27	7
Abdominal Pain	23	6
Diarrhea	13	6
Anorexia	12	0
Dyspepsia	8	4
Constipation	5	1
Nervous System		
Somnolence	27	11
Tremor	25	6
Dizziness	25	13
Diplopia	16	9
Amblyopia/Blurred Vision	12	9
Ataxia	8	1
Nystagmus	8	1
Emotional Lability	6	4

Thinking Abnormal	6	0
Amnesia	5	1
Respiratory System		
Flu Syndrome	12	9
Infection	12	6
Bronchitis	5	1
Rhinitis	5	4
Other		
Alopecia	6	1
Weight Loss	6	0

Table 4 lists treatment-emergent adverse reactions which were reported by ≥ 5% of patients in the high dose valproate group, and for which the incidence was greater than in the low dose group, in a controlled trial of Depakote monotherapy treatment of complex partial seizures. Since patients were being titrated off another antiepilepsy drug during the first portion of the trial, it is not possible, in many cases, to determine whether the following adverse reactions can be ascribed to Depakote alone, or the combination of valproate and other antiepilepsy drugs.

Table 4. Adverse Reactions Reported by ≥ 5% of Patients in the High Dose Group in the Controlled Trial of Valproate Monotherapy for Complex Partial Seizures[1]

Body System/Reaction	High Dose (n = 131) %	Low Dose (n = 134) %
Body as a Whole		
Asthenia	21	10
Digestive System		
Nausea	34	26
Diarrhea	23	19
Vomiting	23	15
Abdominal Pain	12	9
Anorexia	11	4
Dyspepsia	11	10
Hemic/Lymphatic System		
Thrombocytopenia	24	1
Ecchymosis	5	4
Metabolic/Nutritional		
Weight Gain	9	4
Peripheral Edema	8	3
Nervous System		
Tremor	57	19
Somnolence	30	18
Dizziness	18	13
Insomnia	15	9

Nervousness	11	7
Amnesia	7	4
Nystagmus	7	1
Depression	5	4
Respiratory System		
Infection	20	13
Pharyngitis	8	2
Dyspnea	5	1
Skin and Appendages		
Alopecia	24	13
Special Senses		
Amblyopia/Blurred Vision	8	4
Tinnitus	7	1
[1] Headache was the only adverse reaction that occurred in ≥ 5% of patients in the high dose group and at an equal or greater incidence in the low dose group.		

The following additional adverse reactions were reported by greater than 1% but less than 5% of the 358 patients treated with valproate in the controlled trials of complex partial seizures:

Body as a Whole: Back pain, chest pain, malaise.

Cardiovascular System: Tachycardia, hypertension, palpitation.

Digestive System: Increased appetite, flatulence, hematemesis, eructation, pancreatitis, periodontal abscess.

Hemic and Lymphatic System: Petechia.

Metabolic and Nutritional Disorders: SGOT increased, SGPT increased.

Musculoskeletal System: Myalgia, twitching, arthralgia, leg cramps, myasthenia.

Nervous System: Anxiety, confusion, abnormal gait, paresthesia, hypertonia, incoordination, abnormal dreams, personality disorder.

Respiratory System: Sinusitis, cough increased, pneumonia, epistaxis.

Skin and Appendages: Rash, pruritus, dry skin.

Special Senses: Taste perversion, abnormal vision, deafness, otitis media.

Urogenital System: Urinary incontinence, vaginitis, dysmenorrhea, amenorrhea, urinary frequency.

6.3 Migraine

Based on two placebo-controlled clinical trials and their long term extension, valproate was generally well tolerated with most adverse reactions rated as mild to moderate in severity. Of the 202 patients exposed to valproate in the placebo-controlled trials, 17% discontinued for intolerance. This is compared to a rate of 5% for the 81 placebo patients. Including the long term extension study, the adverse reactions reported as the primary reason for discontinuation by ≥ 1% of 248 valproate-treated patients were alopecia (6%), nausea and/or vomiting (5%), weight gain (2%), tremor (2%), somnolence

(1%), elevated SGOT and/or SGPT (1%), and depression (1%).

Table 5 includes those adverse reactions reported for patients in the placebo-controlled trials where the incidence rate in the Depakote-treated group was greater than 5% and was greater than that for placebo patients.

Table 5. Adverse Reactions Reported by > 5% of Depakote-Treated Patients During Migraine Placebo-Controlled Trials with a Greater Incidence Than Patients Taking Placebo[1]

Body System Reaction	Depakote (N = 202) %	Placebo (N = 81) %
Gastrointestinal System		
Nausea	31	10
Dyspepsia	13	9
Diarrhea	12	7
Vomiting	11	1
Abdominal Pain	9	4
Increased Appetite	6	4
Nervous System		
Asthenia	20	9
Somnolence	17	5
Dizziness	12	6
Tremor	9	0
Other		
Weight Gain	8	2
Back Pain	8	6
Alopecia	7	1

[1] The following adverse reactions occurred in at least 5% of Depakote-treated patients and at an equal or greater incidence for placebo than for Depakote: flu syndrome and pharyngitis.

The following additional adverse reactions were reported by greater than 1% but not more than 5% of the 202 Depakote-treated patients in the controlled clinical trials:

Body as a Whole: Chest pain, chills, face edema, fever and malaise.

Cardiovascular System: Vasodilatation.

Digestive System: Anorexia, constipation, dry mouth, flatulence, gastrointestinal disorder (unspecified), and stomatitis.

Hemic and Lymphatic System: Ecchymosis.

Metabolic and Nutritional Disorders: Peripheral edema, SGOT increase, and SGPT increase.

Musculoskeletal System: Leg cramps and myalgia.

Nervous System: Abnormal dreams, amnesia, confusion, depression, emotional lability, insomnia, nervousness, paresthesia, speech disorder, thinking abnormalities, and

vertigo.

Respiratory System: Cough increased, dyspnea, rhinitis, and sinusitis.

Skin and Appendages: Pruritus and rash.

Special Senses: Conjunctivitis, ear disorder, taste perversion, and tinnitus.

Urogenital System: Cystitis, metrorrhagia, and vaginal hemorrhage.

6.4 Postmarketing Experience

The following adverse reactions have been identified during post approval use of Depakote. 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.

Dermatologic: Hair texture changes, hair color changes, photosensitivity, erythema multiforme, toxic epidermal necrolysis, nail and nail bed disorders, Stevens-Johnson syndrome, hyperpigmentation, and acute generalized exanthematous pustulosis *[see Warnings and Precautions (5.13)].*

Psychiatric: Emotional upset, psychosis, aggression, psychomotor hyperactivity, hostility, disturbance in attention, learning disorder, and behavioral deterioration.

Neurologic: Paradoxical convulsion, parkinsonism

There have been several reports of acute or subacute cognitive decline and behavioral changes (apathy or irritability) with cerebral pseudoatrophy on imaging associated with valproate therapy; both the cognitive/behavioral changes and cerebral pseudoatrophy reversed partially or fully after valproate discontinuation.

There have been reports of acute or subacute encephalopathy in the absence of elevated ammonia levels, elevated valproate levels, or neuroimaging changes. The encephalopathy reversed partially or fully after valproate discontinuation.

Musculoskeletal: Fractures, decreased bone mineral density, osteopenia, osteoporosis, and weakness.

Hematologic: Relative lymphocytosis, macrocytosis, leukopenia, acquired Pelger-Huet anomaly, anemia including macrocytic with or without folate deficiency, bone marrow suppression, pancytopenia, aplastic anemia, agranulocytosis, and acute intermittent porphyria.

Endocrine: Irregular menses, secondary amenorrhea, hyperandrogenism, hirsutism, elevated testosterone level, breast enlargement, galactorrhea, parotid gland swelling, polycystic ovary disease, decreased carnitine concentrations, hyponatremia, hyperglycinemia, and inappropriate ADH secretion.

There have been rare reports of Fanconi's syndrome occurring chiefly in children.

Metabolism and nutrition: Weight gain.

Reproductive: Aspermia, azoospermia, decreased sperm count, decreased spermatozoa motility, male infertility, and abnormal spermatozoa morphology.

Genitourinary: Enuresis, urinary tract infection, and tubulointerstitial nephritis.

Special Senses: Hearing loss.

Other: Allergic reaction, anaphylaxis, developmental delay, bone pain, bradycardia, cutaneous vasculitis, and angioedema *[see Warnings and Precautions (5.14)]*.

7 DRUG INTERACTIONS

7.1 Effects of Co-Administered Drugs on Valproate Clearance

Drugs that affect the level of expression of hepatic enzymes, particularly those that elevate levels of glucuronosyltransferases (such as ritonavir), may increase the clearance of valproate. For example, phenytoin, carbamazepine, and phenobarbital (or primidone) can double the clearance of valproate. Thus, patients on monotherapy will generally have longer half-lives and higher concentrations than patients receiving polytherapy with antiepilepsy drugs.

In contrast, drugs that are inhibitors of cytochrome P450 isozymes, e.g., antidepressants, may be expected to have little effect on valproate clearance because cytochrome P450 microsomal mediated oxidation is a relatively minor secondary metabolic pathway compared to glucuronidation and beta-oxidation.

Because of these changes in valproate clearance, monitoring of valproate and concomitant drug concentrations should be increased whenever enzyme inducing drugs are introduced or withdrawn.

The following list provides information about the potential for an influence of several commonly prescribed medications on valproate pharmacokinetics. The list is not exhaustive nor could it be, since new interactions are continuously being reported.

Drugs for which a potentially important interaction has been observed

Aspirin

A study involving the co-administration of aspirin at antipyretic doses (11 to 16 mg/kg) with valproate to pediatric patients (n=6) revealed a decrease in protein binding and an inhibition of metabolism of valproate. Valproate free fraction was increased 4-fold in the presence of aspirin compared to valproate alone. The β-oxidation pathway consisting of 2-E-valproic acid, 3-OH-valproic acid, and 3-keto valproic acid was decreased from 25% of total metabolites excreted on valproate alone to 8.3% in the presence of aspirin. Caution should be observed if valproate and aspirin are to be co-administered.

Carbapenem Antibiotics

A clinically significant reduction in serum valproic acid concentration has been reported in patients receiving carbapenem antibiotics (for example, ertapenem, imipenem, meropenem; this is not a complete list) and may result in loss of seizure control. The mechanism of this interaction is not well understood. Serum valproic acid concentrations should be monitored frequently after initiating carbapenem therapy. Alternative antibacterial or anticonvulsant therapy should be considered if serum valproic acid concentrations drop significantly or seizure control deteriorates *[see Warnings and Precautions (5.15)]*.

Estrogen-Containing Hormonal Contraceptives

Estrogen-containing hormonal contraceptives may increase the clearance of valproate, which may result in decreased concentration of valproate and potentially increased

seizure frequency. Prescribers should monitor serum valproate concentrations and clinical response when adding or discontinuing estrogen containing products.

Felbamate

A study involving the co-administration of 1,200 mg/day of felbamate with valproate to patients with epilepsy (n=10) revealed an increase in mean valproate peak concentration by 35% (from 86 to 115 mcg/mL) compared to valproate alone. Increasing the felbamate dose to 2,400 mg/day increased the mean valproate peak concentration to 133 mcg/mL (another 16% increase). A decrease in valproate dosage may be necessary when felbamate therapy is initiated.

Methotrexate

Methotrexate may decrease serum valproate levels and potentially result in increased frequency of seizures or bipolar symptoms. Prescribers should monitor serum valproate concentrations and clinical response when adding or discontinuing methotrexate and adjust valproate dosage, if necessary.

Rifampin

A study involving the administration of a single dose of valproate (7 mg/kg) 36 hours after 5 nights of daily dosing with rifampin (600 mg) revealed a 40% increase in the oral clearance of valproate. Valproate dosage adjustment may be necessary when it is co-administered with rifampin.

7.2 Effects of Valproate on Other Drugs

Valproate has been found to be a weak inhibitor of some P450 isozymes, epoxide hydrase, and glucuronosyltransferases.

The following list provides information about the potential for an influence of valproate co-administration on the pharmacokinetics or pharmacodynamics of several commonly prescribed medications. The list is not exhaustive, since new interactions are continuously being reported.

Drugs for which a potentially important valproate interaction has been observed

Amitriptyline/Nortriptyline

Administration of a single oral 50 mg dose of amitriptyline to 15 normal volunteers (10 males and 5 females) who received valproate (500 mg BID) resulted in a 21% decrease in plasma clearance of amitriptyline and a 34% decrease in the net clearance of nortriptyline. Rare postmarketing reports of concurrent use of valproate and amitriptyline resulting in an increased amitriptyline level have been received. Concurrent use of valproate and amitriptyline has rarely been associated with toxicity. Monitoring of amitriptyline levels should be considered for patients taking valproate concomitantly with amitriptyline. Consideration should be given to lowering the dose of amitriptyline/nortriptyline in the presence of valproate.

Carbamazepine/carbamazepine-10,11-Epoxide

Serum levels of carbamazepine (CBZ) decreased 17% while that of carbamazepine-10,11-epoxide (CBZ-E) increased by 45% upon co-administration of valproate and CBZ to epileptic patients.

Clonazepam

The concomitant use of valproate and clonazepam may induce absence status in patients with a history of absence type seizures.

Diazepam

Valproate displaces diazepam from its plasma albumin binding sites and inhibits its metabolism. Co-administration of valproate (1,500 mg daily) increased the free fraction of diazepam (10 mg) by 90% in healthy volunteers (n=6). Plasma clearance and volume of distribution for free diazepam were reduced by 25% and 20%, respectively, in the presence of valproate. The elimination half-life of diazepam remained unchanged upon addition of valproate.

Ethosuximide

Valproate inhibits the metabolism of ethosuximide. Administration of a single ethosuximide dose of 500 mg with valproate (800 to 1,600 mg/day) to healthy volunteers (n=6) was accompanied by a 25% increase in elimination half-life of ethosuximide and a 15% decrease in its total clearance as compared to ethosuximide alone. Patients receiving valproate and ethosuximide, especially along with other anticonvulsants, should be monitored for alterations in serum concentrations of both drugs.

Lamotrigine

In a steady-state study involving 10 healthy volunteers, the elimination half-life of lamotrigine increased from 26 to 70 hours with valproate co-administration (a 165% increase). The dose of lamotrigine should be reduced when co-administered with valproate. Serious skin reactions (such as Stevens-Johnson syndrome and toxic epidermal necrolysis) have been reported with concomitant lamotrigine and valproate administration. See lamotrigine package insert for details on lamotrigine dosing with concomitant valproate administration.

Phenobarbital

Valproate was found to inhibit the metabolism of phenobarbital. Co-administration of valproate (250 mg BID for 14 days) with phenobarbital to normal subjects (n=6) resulted in a 50% increase in half-life and a 30% decrease in plasma clearance of phenobarbital (60 mg single-dose). The fraction of phenobarbital dose excreted unchanged increased by 50% in presence of valproate.

There is evidence for severe CNS depression, with or without significant elevations of barbiturate or valproate serum concentrations. All patients receiving concomitant barbiturate therapy should be closely monitored for neurological toxicity. Serum barbiturate concentrations should be obtained, if possible, and the barbiturate dosage decreased, if appropriate.

Primidone, which is metabolized to a barbiturate, may be involved in a similar interaction with valproate.

Phenytoin

Valproate displaces phenytoin from its plasma albumin binding sites and inhibits its hepatic metabolism. Co-administration of valproate (400 mg TID) with phenytoin (250 mg) in normal volunteers (n=7) was associated with a 60% increase in the free fraction of phenytoin. Total plasma clearance and apparent volume of distribution of phenytoin

increased 30% in the presence of valproate. Both the clearance and apparent volume of distribution of free phenytoin were reduced by 25%.

In patients with epilepsy, there have been reports of breakthrough seizures occurring with the combination of valproate and phenytoin. The dosage of phenytoin should be adjusted as required by the clinical situation.

Propofol

The concomitant use of valproate and propofol may lead to increased blood levels of propofol. Reduce the dose of propofol when co-administering with valproate. Monitor patients closely for signs of increased sedation or cardiorespiratory depression.

Rufinamide

Based on a population pharmacokinetic analysis, rufinamide clearance was decreased by valproate. Rufinamide concentrations were increased by <16% to 70%, dependent on concentration of valproate (with the larger increases being seen in pediatric patients at high doses or concentrations of valproate). Patients stabilized on rufinamide before being prescribed valproate should begin valproate therapy at a low dose, and titrate to a clinically effective dose *[see Dosage and Administration (2.5)]*. Similarly, patients on valproate should begin at a rufinamide dose lower than 10 mg/kg per day (pediatric patients) or 400 mg per day (adults).

Tolbutamide

From *in vitro* experiments, the unbound fraction of tolbutamide was increased from 20% to 50% when added to plasma samples taken from patients treated with valproate. The clinical relevance of this displacement is unknown.

Warfarin

In an *in vitro* study, valproate increased the unbound fraction of warfarin by up to 32.6%. The therapeutic relevance of this is unknown; however, coagulation tests should be monitored if valproate therapy is instituted in patients taking anticoagulants.

Zidovudine

In six patients who were seropositive for HIV, the clearance of zidovudine (100 mg q8h) was decreased by 38% after administration of valproate (250 or 500 mg q8h); the half-life of zidovudine was unaffected.

7.3 Topiramate

Concomitant administration of valproate and topiramate has been associated with hyperammonemia with and without encephalopathy *[see Contraindications (4) and Warnings and Precautions (5.6, 5.9, 5.10)]*. Concomitant administration of topiramate with valproate has also been associated with hypothermia in patients who have tolerated either drug alone. It may be prudent to examine blood ammonia levels in patients in whom the onset of hypothermia has been reported *[see Warnings and Precautions (5.9, 5.11)]*.

7.4 Cannabidiol

Concomitant administration of valproate and cannabidiol has been associated with an increased risk of ALT and/or AST elevation. This has been manageable by dose reduction

or, in more severe cases, by discontinuation of one or both drugs. Liver function, including serum transaminase and total bilirubin levels, should be monitored during concomitant treatment *[see Warnings and Precautions (5.1)]*.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Pregnancy Exposure Registry

There is a pregnancy exposure registry that monitors pregnancy outcomes in women exposed to antiepileptic drugs (AEDs), including Depakote, during pregnancy. Encourage women who are taking Depakote during pregnancy to enroll in the North American Antiepileptic Drug (NAAED) Pregnancy Registry by calling toll-free 1-888-233-2334 or visiting the website, http://www.aedpregnancyregistry.org/. This must be done by the patient herself.

Risk Summary

For use in prophylaxis of migraine headaches, valproate is contraindicated in women who are pregnant and in women of childbearing potential who are not using effective contraception *[see Contraindications (4)]*.

For use in epilepsy or bipolar disorder, valproate should not be used to treat women who are pregnant or who plan to become pregnant unless other medications have failed to provide adequate symptom control or are otherwise unacceptable *[see Boxed Warning and Warnings and Precautions (5.2, 5.3)]*. Women with epilepsy who become pregnant while taking valproate should not discontinue valproate abruptly, as this can precipitate status epilepticus with resulting maternal and fetal hypoxia and threat to life.

Maternal valproate use during pregnancy for any indication increases the risk of congenital malformations, particularly neural tube defects including spina bifida, but also malformations involving other body systems (e.g., craniofacial defects including oral clefts, cardiovascular malformations, hypospadias, limb malformations). This risk is dose-dependent; however, a threshold dose below which no risk exists cannot be established. In utero exposure to valproate may also result in hearing impairment or hearing loss. Valproate polytherapy with other AEDs has been associated with an increased frequency of congenital malformations compared with AED monotherapy. The risk of major structural abnormalities is greatest during the first trimester; however, other serious developmental effects can occur with valproate use throughout pregnancy. The rate of congenital malformations among babies born to epileptic mothers who used valproate during pregnancy has been shown to be about four times higher than the rate among babies born to epileptic mothers who used other anti-seizure monotherapies *[see Warnings and Precautions (5.2) and Data]*.

Epidemiological studies have indicated that children exposed to valproate in utero have lower IQ scores and a higher risk of neurodevelopmental disorders (NDDs), including autism spectrum disorder (ASD), intellectual disability (ID, defined as an IQ < 70), and attention deficit/hyperactivity disorder (ADHD), compared to children exposed to either another AED in utero or to no AEDs in utero *[see Warnings and Precautions (5.3) and Data]*.

In animal studies, valproate administration during pregnancy resulted in fetal structural

malformations similar to those seen in humans and neurobehavioral deficits in the offspring at clinically relevant doses *[see Data]*.

There have been reports of hypoglycemia in neonates and fatal cases of hepatic failure in infants following maternal use of valproate during pregnancy.

Pregnant women taking valproate may develop hepatic failure or clotting abnormalities including thrombocytopenia, hypofibrinogenemia, and/or decrease in other coagulation factors, which may result in hemorrhagic complications in the neonate including death *[see Warnings and Precautions (5.1, 5.8)]*.

Available prenatal diagnostic testing to detect neural tube and other defects should be offered to pregnant women using valproate.

Evidence suggests that folic acid supplementation prior to conception and during the first trimester of pregnancy decreases the risk for congenital neural tube defects in the general population. It is not known whether the risk of neural tube defects or decreased IQ in the offspring of women receiving valproate is reduced by folic acid supplementation. Dietary folic acid supplementation both prior to conception and during pregnancy should be routinely recommended for women of childbearing potential using valproate *[see Warnings and Precautions (5.2, 5.4)]*.

All pregnancies have a background risk of birth defect, loss, or other adverse outcomes. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2 to 4% and 15 to 20%, respectively.

Clinical Considerations

Disease-associated maternal and/or embryo/fetal risk

Epilepsy, with or without exposure to antiepileptic drugs, has been associated with several adverse outcomes during pregnancy, including preeclampsia, preterm labor, antepartum and postpartum hemorrhage, placental abruption, poor fetal growth, prematurity, fetal death, and maternal mortality. The risk of maternal or fetal injury may be greatest for patients with untreated or poorly controlled convulsive seizures. Women with epilepsy who become pregnant should not abruptly discontinue antiepileptic drugs, including valproate, due to the risk of status epilepticus or severe seizures, which may be life-threatening.

Maternal adverse reactions

Pregnant women taking valproate may develop clotting abnormalities including thrombocytopenia, hypofibrinogenemia, and/or decrease in other coagulation factors, which may result in hemorrhagic complications in the neonate including death *[see Warnings and Precautions (5.8)]*. If valproate is used in pregnancy, the clotting parameters should be monitored carefully in the mother. If abnormal in the mother, then these parameters should also be monitored in the neonate.

Patients taking valproate may develop hepatic failure *[see Boxed Warning and Warnings and Precautions (5.1)]*. Fatal cases of hepatic failure in infants exposed to valproate in utero have also been reported following maternal use of valproate during pregnancy.

Hypoglycemia has been reported in neonates whose mothers have taken valproate during pregnancy.

Data

Human Data

Neural Tube Defects and Other Structural Abnormalities

There is an extensive body of evidence demonstrating that exposure to valproate in utero increases the risk of neural tube defects and other structural abnormalities. Based on published data from the CDC's National Birth Defects Prevention Network, the risk of spina bifida in the general population is about 0.06 to 0.07% (6 to 7 in 10,000 births) compared to the risk following in utero valproate exposure estimated to be approximately 1 to 2% (100 to 200 in 10,000 births).

The NAAED Pregnancy Registry has reported a major malformation rate of 9-11% in the offspring of women exposed to an average of 1,000 mg/day of valproate monotherapy during pregnancy. These data show an up to a five-fold increased risk for any major malformation following valproate exposure in utero compared to the risk following exposure in utero to other AEDs taken as monotherapy. The major congenital malformations included cases of neural tube defects, cardiovascular malformations, craniofacial defects (e.g., oral clefts, craniosynostosis), hypospadias, limb malformations (e.g., clubfoot, polydactyly), and other malformations of varying severity involving other body systems *[see Warnings and Precautions (5.2)]*.

Neurodevelopmental Disorders and Effect on IQ

Published epidemiological studies have indicated that children exposed to valproate in utero have lower IQ scores than children exposed to either another AED in utero or to no AEDs in utero. The largest of these studies[1] is a prospective cohort study conducted in the United States and United Kingdom that found that children with prenatal exposure to valproate (n=62) had lower IQ scores at age 6 (97 [95% CI 94-101]) than children with prenatal exposure to the other anti-epileptic drug monotherapy treatments evaluated: lamotrigine (108 [95% CI 105–110]), carbamazepine (105 [95% CI 102–108]) and phenytoin (108 [95% CI 104–112]). Because the women in this study were exposed to AEDs throughout pregnancy, whether the risk for decreased IQ was related to a particular time period of drug exposure during pregnancy could not be assessed *[see Warnings and Precautions (5.3)]*.

Multiple large, epidemiological studies suggest that exposure to valproate monotherapy in utero may be associated with an increased risk of:

- ASD (adjusted risk estimates across studies range from 1.6 [95% CI 0.98, 2.5] to 6.4 [95% CI 3.5, 11.5])
- ID (adjusted risk estimates across studies range from 1.6 [95% CI 0.9, 2.9] to 9.6 [95% CI 3.5, 26.2]
- ADHD (adjusted risk estimates across studies range from 0.7 [95% CI 0.4, 1.1] to 2.2 [95% CI 1.3, 3.5])

Estimates differ based on study population, study comparator, and outcome definitions. Limitations of the studies include, but are not limited to, confounding by indication, residual confounding, limited follow-up time for children who were exposed to valproate in utero, and reliance on number of prescriptions filled, which may not always reflect actual usage and exposure.

Other

There are published case reports of fatal hepatic failure in offspring of women who used valproate during pregnancy.

Animal Data

In developmental toxicity studies conducted in mice, rats, rabbits, and monkeys, increased rates of fetal structural abnormalities, intrauterine growth retardation, and embryo-fetal death occurred following administration of valproate to pregnant animals during organogenesis at clinically relevant doses (calculated on a body surface area [mg/m^2] basis). Valproate induced malformations of multiple organ systems, including skeletal, cardiac, and urogenital defects. In mice, in addition to other malformations, fetal neural tube defects have been reported following valproate administration during critical periods of organogenesis, and the teratogenic response correlated with peak maternal drug levels. Behavioral abnormalities (including cognitive, locomotor, and social interaction deficits) and brain histopathological changes have also been reported in mice and rat offspring exposed prenatally to clinically relevant doses of valproate.

8.2 Lactation

Risk Summary

Valproate is excreted in human milk. Data in the published literature describe the presence of valproate in human milk (range: 0.4 mcg/mL to 3.9 mcg/mL), corresponding to 1% to 10% of maternal serum levels. Valproate serum concentrations collected from breastfed infants aged 3 days postnatal to 12 weeks following delivery ranged from 0.7 mcg/mL to 4 mcg/mL, which were 1% to 6% of maternal serum valproate levels. A published study in children up to six years of age did not report adverse developmental or cognitive effects following exposure to valproate via breast milk *[see Data]*.

There are no data to assess the effects of Depakote on milk production or excretion.

Clinical Considerations

The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for Depakote and any potential adverse effects on the breastfed infant from Depakote or from the underlying maternal condition.

Monitor the breastfed infant for signs of liver damage including jaundice and unusual bruising or bleeding. There have been reports of hepatic failure and clotting abnormalities in offspring of women who used valproate during pregnancy *[see Use in Specific Populations (8.1)]*.

Data

In a published study, breast milk and maternal blood samples were obtained from 11 epilepsy patients taking valproate at doses ranging from 300 mg/day to 2,400 mg/day on postnatal days 3 to 6. In 4 patients who were taking valproate only, breast milk contained an average valproate concentration of 1.8 mcg/mL (range: 1.1 mcg/mL to 2.2 mcg/mL), which corresponded to 4.8% of the maternal plasma concentration (range: 2.7% to 7.4%). Across all patients (7 of whom were taking other AEDs concomitantly), similar results were obtained for breast milk concentration (1.8 mcg/mL, range: 0.4 mcg/mL to 3.9 mcg/mL) and maternal plasma ratio (5.1%, range: 1.3% to 9.6%).

A published study of 6 breastfeeding mother-infant pairs measured serum valproate levels during maternal treatment for bipolar disorder (750 mg/day or 1,000 mg/day). None of the mothers received valproate during pregnancy, and infants were aged from 4 weeks to 19 weeks at the time of evaluation. Infant serum levels ranged from 0.7

mcg/mL to 1.5 mcg/mL. With maternal serum valproate levels near or within the therapeutic range, infant exposure was 0.9% to 2.3% of maternal levels. Similarly, in 2 published case reports with maternal doses of 500 mg/day or 750 mg/day during breastfeeding of infants aged 3 months and 1 month, infant exposure was 1.5% and 6% that of the mother, respectively.

A prospective observational multicenter study evaluated the long-term neurodevelopmental effects of AED use on children. Pregnant women receiving monotherapy for epilepsy were enrolled with assessments of their children at ages 3 years and 6 years. Mothers continued AED therapy during the breastfeeding period. Adjusted IQs measured at 3 years for breastfed and non-breastfed children were 93 (n=11) and 90 (n=24), respectively. At 6 years, the scores for breastfed and non-breastfed children were 106 (n=11) and 94 (n=25), respectively (p=0.04). For other cognitive domains evaluated at 6 years, no adverse cognitive effects of continued exposure to an AED (including valproate) via breast milk were observed.

8.3 Females and Males of Reproductive Potential

Contraception

Women of childbearing potential should use effective contraception while taking valproate *[see Boxed Warning, Warnings and Precautions (5.4), Drug Interactions (7), and Use in Specific Populations (8.1)]*. This is especially important when valproate use is considered for a condition not usually associated with permanent injury or death such as prophylaxis of migraine headaches *[see Contraindications (4)]*.

Infertility

There have been reports of male infertility coincident with valproate therapy *[see Adverse Reactions (6.4)]*.

In animal studies, oral administration of valproate at clinically relevant doses resulted in adverse reproductive effects in males *[see Nonclinical Toxicology (13.1)]*.

8.4 Pediatric Use

Experience has indicated that pediatric patients under the age of two years are at a considerably increased risk of developing fatal hepatotoxicity, especially those with the aforementioned conditions *[see Boxed Warning and Warnings and Precautions (5.1)]*. When Depakote is used in this patient group, it should be used with extreme caution and as a sole agent. The benefits of therapy should be weighed against the risks. Above the age of 2 years, experience in epilepsy has indicated that the incidence of fatal hepatotoxicity decreases considerably in progressively older patient groups.

Younger children, especially those receiving enzyme-inducing drugs, will require larger maintenance doses to attain targeted total and unbound valproate concentrations. Pediatric patients (i.e., between 3 months and 10 years) have 50% higher clearances expressed on weight (i.e., mL/min/kg) than do adults. Over the age of 10 years, children have pharmacokinetic parameters that approximate those of adults.

The variability in free fraction limits the clinical usefulness of monitoring total serum valproic acid concentrations. Interpretation of valproic acid concentrations in children should include consideration of factors that affect hepatic metabolism and protein binding.

Pediatric Clinical Trials

Depakote was studied in seven pediatric clinical trials.

Two of the pediatric studies were double-blinded placebo-controlled trials to evaluate the efficacy of Depakote ER for the indications of mania (150 patients aged 10 to 17 years, 76 of whom were on Depakote ER) and migraine (304 patients aged 12 to 17 years, 231 of whom were on Depakote ER). Efficacy was not established for either the treatment of migraine or the treatment of mania. The most common drug-related adverse reactions (reported >5% and twice the rate of placebo) reported in the controlled pediatric mania study were nausea, upper abdominal pain, somnolence, increased ammonia, gastritis and rash.

The remaining five trials were long term safety studies. Two six-month pediatric studies were conducted to evaluate the long-term safety of Depakote ER for the indication of mania (292 patients aged 10 to 17 years). Two twelve-month pediatric studies were conducted to evaluate the long-term safety of Depakote ER for the indication of migraine (353 patients aged 12 to 17 years). One twelve-month study was conducted to evaluate the safety of Depakote Sprinkle Capsules in the indication of partial seizures (169 patients aged 3 to 10 years).

In these seven clinical trials, the safety and tolerability of Depakote in pediatric patients were shown to be comparable to those in adults *[see Adverse Reactions (6)]*.

Juvenile Animal Toxicology

In studies of valproate in immature animals, toxic effects not observed in adult animals included retinal dysplasia in rats treated during the neonatal period (from postnatal day 4) and nephrotoxicity in rats treated during the neonatal and juvenile (from postnatal day 14) periods. The no-effect dose for these findings was less than the maximum recommended human dose on a mg/m^2 basis.

8.5 Geriatric Use

No patients above the age of 65 years were enrolled in double-blind prospective clinical trials of mania associated with bipolar illness. In a case review study of 583 patients, 72 patients (12%) were greater than 65 years of age. A higher percentage of patients above 65 years of age reported accidental injury, infection, pain, somnolence, and tremor. Discontinuation of valproate was occasionally associated with the latter two events. It is not clear whether these events indicate additional risk or whether they result from preexisting medical illness and concomitant medication use among these patients.

A study of elderly patients with dementia revealed drug related somnolence and discontinuation for somnolence *[see Warnings and Precautions (5.16)]*. The starting dose should be reduced in these patients, and dosage reductions or discontinuation should be considered in patients with excessive somnolence *[see Dosage and Administration (2.4)]*.

There is insufficient information available to discern the safety and effectiveness of valproate for the prophylaxis of migraines in patients over 65.

10 OVERDOSAGE

Overdosage with valproate may result in somnolence, heart block, deep coma, and

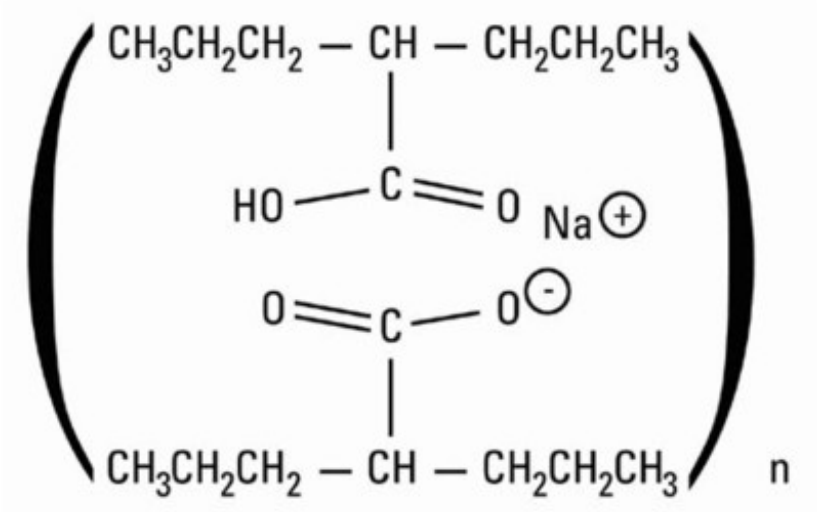
hypernatremia. Fatalities have been reported; however patients have recovered from valproate levels as high as 2,120 mcg/mL.

In overdose situations, the fraction of drug not bound to protein is high and hemodialysis or tandem hemodialysis plus hemoperfusion may result in significant removal of drug. The benefit of gastric lavage or emesis will vary with the time since ingestion. General supportive measures should be applied with particular attention to the maintenance of adequate urinary output.

Naloxone has been reported to reverse the CNS depressant effects of valproate overdosage. Because naloxone could theoretically also reverse the antiepileptic effects of valproate, it should be used with caution in patients with epilepsy.

11 DESCRIPTION

Divalproex sodium is a stable co-ordination compound comprised of sodium valproate and valproic acid in a 1:1 molar relationship and formed during the partial neutralization of valproic acid with 0.5 equivalent of sodium hydroxide. Chemically it is designated as sodium hydrogen bis(2-propylpentanoate). Divalproex sodium has the following structure:



Divalproex sodium occurs as a white powder with a characteristic odor.

Depakote tablets are for oral administration. Depakote tablets are supplied in three dosage strengths containing divalproex sodium equivalent to 125 mg, 250 mg, or 500 mg of valproic acid.

Inactive Ingredients

Depakote tablets: cellulosic polymers, diacetylated monoglycerides, povidone, pregelatinized starch (contains corn starch), silica gel, talc, titanium dioxide, and vanillin.

In addition, individual tablets contain:

125 mg tablets: FD&C Blue No. 1 and FD&C Red No. 40.

250 mg tablets: FD&C Yellow No. 6 and iron oxide.

500 mg tablets: D&C Red No. 30, FD&C Blue No. 2, and iron oxide.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Divalproex sodium dissociates to the valproate ion in the gastrointestinal tract. The mechanisms by which valproate exerts its therapeutic effects have not been established. It has been suggested that its activity in epilepsy is related to increased brain concentrations of gamma-aminobutyric acid (GABA).

12.2 Pharmacodynamics

The relationship between plasma concentration and clinical response is not well documented. One contributing factor is the nonlinear, concentration dependent protein binding of valproate which affects the clearance of the drug. Thus, monitoring of total serum valproate cannot provide a reliable index of the bioactive valproate species.

For example, because the plasma protein binding of valproate is concentration dependent, the free fraction increases from approximately 10% at 40 mcg/mL to 18.5% at 130 mcg/mL. Higher than expected free fractions occur in the elderly, in hyperlipidemic patients, and in patients with hepatic and renal diseases.

Epilepsy

The therapeutic range in epilepsy is commonly considered to be 50 to 100 mcg/mL of total valproate, although some patients may be controlled with lower or higher plasma concentrations.

Mania

In placebo-controlled clinical trials of acute mania, patients were dosed to clinical response with trough plasma concentrations between 50 and 125 mcg/mL *[see Dosage and Administration (2.1)]*.

12.3 Pharmacokinetics

Absorption/Bioavailability

Equivalent oral doses of Depakote (divalproex sodium) products and valproic acid capsules deliver equivalent quantities of valproate ion systemically. Although the rate of valproate ion absorption may vary with the formulation administered (liquid, solid, or sprinkle), conditions of use (e.g., fasting or postprandial) and the method of administration (e.g., whether the contents of the capsule are sprinkled on food or the capsule is taken intact), these differences should be of minor clinical importance under the steady state conditions achieved in chronic use in the treatment of epilepsy.

However, it is possible that differences among the various valproate products in T_{max} and C_{max} could be important upon initiation of treatment. For example, in single dose studies, the effect of feeding had a greater influence on the rate of absorption of the tablet (increase in T_{max} from 4 to 8 hours) than on the absorption of the sprinkle capsules (increase in T_{max} from 3.3 to 4.8 hours).

While the absorption rate from the G.I. tract and fluctuation in valproate plasma concentrations vary with dosing regimen and formulation, the efficacy of valproate as an anticonvulsant in chronic use is unlikely to be affected. Experience employing dosing regimens from once-a-day to four-times-a-day, as well as studies in primate epilepsy

models involving constant rate infusion, indicate that total daily systemic bioavailability (extent of absorption) is the primary determinant of seizure control and that differences in the ratios of plasma peak to trough concentrations between valproate formulations are inconsequential from a practical clinical standpoint. Whether or not rate of absorption influences the efficacy of valproate as an antimanic or antimigraine agent is unknown.

Co-administration of oral valproate products with food and substitution among the various Depakote and valproic acid formulations should cause no clinical problems in the management of patients with epilepsy *[see Dosage and Administration (2.2)]*. Nonetheless, any changes in dosage administration, or the addition or discontinuance of concomitant drugs should ordinarily be accompanied by close monitoring of clinical status and valproate plasma concentrations.

Distribution

Protein Binding

The plasma protein binding of valproate is concentration dependent and the free fraction increases from approximately 10% at 40 mcg/mL to 18.5% at 130 mcg/mL. Protein binding of valproate is reduced in the elderly, in patients with chronic hepatic diseases, in patients with renal impairment, and in the presence of other drugs (e.g., aspirin). Conversely, valproate may displace certain protein-bound drugs (e.g., phenytoin, carbamazepine, warfarin, and tolbutamide) *[see Drug Interactions (7.2)* for more detailed information on the pharmacokinetic interactions of valproate with other drugs*]*.

CNS Distribution

Valproate concentrations in cerebrospinal fluid (CSF) approximate unbound concentrations in plasma (about 10% of total concentration).

Metabolism

Valproate is metabolized almost entirely by the liver. In adult patients on monotherapy, 30-50% of an administered dose appears in urine as a glucuronide conjugate. Mitochondrial β-oxidation is the other major metabolic pathway, typically accounting for over 40% of the dose. Usually, less than 15-20% of the dose is eliminated by other oxidative mechanisms. Less than 3% of an administered dose is excreted unchanged in urine.

The relationship between dose and total valproate concentration is nonlinear; concentration does not increase proportionally with the dose, but rather, increases to a lesser extent due to saturable plasma protein binding. The kinetics of unbound drug are linear.

Elimination

Mean plasma clearance and volume of distribution for total valproate are 0.56 L/hr/1.73 m^2 and 11 L/1.73 m^2, respectively. Mean plasma clearance and volume of distribution for free valproate are 4.6 L/hr/1.73 m^2 and 92 L/1.73 m^2. Mean terminal half-life for valproate monotherapy ranged from 9 to 16 hours following oral dosing regimens of 250 to 1,000 mg.

The estimates cited apply primarily to patients who are not taking drugs that affect hepatic metabolizing enzyme systems. For example, patients taking enzyme-inducing antiepileptic drugs (carbamazepine, phenytoin, and phenobarbital) will clear valproate

more rapidly. Because of these changes in valproate clearance, monitoring of antiepileptic concentrations should be intensified whenever concomitant antiepileptics are introduced or withdrawn.

Specific Populations

Effect of Age

Neonates

Children within the first two months of life have a markedly decreased ability to eliminate valproate compared to older children and adults. This is a result of reduced clearance (perhaps due to delay in development of glucuronosyltransferase and other enzyme systems involved in valproate elimination) as well as increased volume of distribution (in part due to decreased plasma protein binding). For example, in one study, the half-life in children under 10 days ranged from 10 to 67 hours compared to a range of 7 to 13 hours in children greater than 2 months.

Children

Pediatric patients (i.e., between 3 months and 10 years) have 50% higher clearances expressed on weight (i.e., mL/min/kg) than do adults. Over the age of 10 years, children have pharmacokinetic parameters that approximate those of adults.

Elderly

The capacity of elderly patients (age range: 68 to 89 years) to eliminate valproate has been shown to be reduced compared to younger adults (age range: 22 to 26 years). Intrinsic clearance is reduced by 39%; the free fraction is increased by 44%. Accordingly, the initial dosage should be reduced in the elderly *[see Dosage and Administration (2.4)]*.

Effect of Sex

There are no differences in the body surface area adjusted unbound clearance between males and females (4.8±0.17 and 4.7±0.07 L/hr per 1.73 m^2, respectively).

Effect of Race

The effects of race on the kinetics of valproate have not been studied.

Effect of Disease

Liver Disease

Liver disease impairs the capacity to eliminate valproate. In one study, the clearance of free valproate was decreased by 50% in 7 patients with cirrhosis and by 16% in 4 patients with acute hepatitis, compared with 6 healthy subjects. In that study, the half-life of valproate was increased from 12 to 18 hours. Liver disease is also associated with decreased albumin concentrations and larger unbound fractions (2 to 2.6 fold increase) of valproate. Accordingly, monitoring of total concentrations may be misleading since free concentrations may be substantially elevated in patients with hepatic disease whereas total concentrations may appear to be normal *[see Boxed Warning, Contraindications (4), and Warnings and Precautions (5.1)]*.

Renal Disease

A slight reduction (27%) in the unbound clearance of valproate has been reported in

patients with renal failure (creatinine clearance < 10 mL/minute); however, hemodialysis typically reduces valproate concentrations by about 20%. Therefore, no dosage adjustment appears to be necessary in patients with renal failure. Protein binding in these patients is substantially reduced; thus, monitoring total concentrations may be misleading.

Drug Interaction Studies with No Interaction or Likely Clinically Unimportant Interaction

Antacids

A study involving the co-administration of valproate 500 mg with commonly administered antacids (Maalox, Trisogel, and Titralac - 160 mEq doses) did not reveal any effect on the extent of absorption of valproate.

Chlorpromazine

A study involving the administration of 100 to 300 mg/day of chlorpromazine to schizophrenic patients already receiving valproate (200 mg BID) revealed a 15% increase in trough plasma levels of valproate.

Haloperidol

A study involving the administration of 6 to 10 mg/day of haloperidol to schizophrenic patients already receiving valproate (200 mg BID) revealed no significant changes in valproate trough plasma levels.

Cimetidine and Ranitidine

Cimetidine and ranitidine do not affect the clearance of valproate.

Acetaminophen

Valproate had no effect on any of the pharmacokinetic parameters of acetaminophen when it was concurrently administered to three epileptic patients.

Clozapine

In psychotic patients (n=11), no interaction was observed when valproate was co-administered with clozapine.

Lithium

Co-administration of valproate (500 mg BID) and lithium carbonate (300 mg TID) to normal male volunteers (n=16) had no effect on the steady-state kinetics of lithium.

Lorazepam

Concomitant administration of valproate (500 mg BID) and lorazepam (1 mg BID) in normal male volunteers (n=9) was accompanied by a 17% decrease in the plasma clearance of lorazepam.

Olanzapine

No dose adjustment for olanzapine is necessary when olanzapine is administered concomitantly with valproate. Co-administration of valproate (500 mg BID) and olanzapine (5 mg) to healthy adults (n=10) caused 15% reduction in C_{max} and 35% reduction in AUC of olanzapine.

Oral Contraceptive Steroids

Administration of a single-dose of ethinyloestradiol (50 mcg)/levonorgestrel (250 mcg) to 6 women on valproate (200 mg BID) therapy for 2 months did not reveal any pharmacokinetic interaction.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, and Impairment of Fertility

Carcinogenesis

Valproate was administered orally to rats and mice at doses of 80 and 170 mg/kg/day (less than the maximum recommended human dose on a mg/m^2 basis) for two years. The primary findings were an increase in the incidence of subcutaneous fibrosarcomas in high-dose male rats receiving valproate and a dose-related trend for benign pulmonary adenomas in male mice receiving valproate.

Mutagenesis

Valproate was not mutagenic in an *in vitro* bacterial assay (Ames test), did not produce dominant lethal effects in mice, and did not increase chromosome aberration frequency in an *in vivo* cytogenetic study in rats. Increased frequencies of sister chromatid exchange (SCE) have been reported in a study of epileptic children taking valproate; this association was not observed in another study conducted in adults.

Impairment of Fertility

In chronic toxicity studies in juvenile and adult rats and dogs, administration of valproate resulted in testicular atrophy and reduced spermatogenesis at oral doses of 400 mg/kg/day or greater in rats (approximately equal to or greater than the maximum recommended human dose (MRHD) on a mg/m^2 basis) and 150 mg/kg/day or greater in dogs (approximately equal to or greater than the MRHD on a mg/m^2 basis). Fertility studies in rats have shown no effect on fertility at oral doses of valproate up to 350 mg/kg/day (approximately equal to the MRHD on a mg/m^2 basis) for 60 days.

14 CLINICAL STUDIES

14.1 Mania

The effectiveness of Depakote for the treatment of acute mania was demonstrated in two 3-week, placebo controlled, parallel group studies.

(1) Study 1: The first study enrolled adult patients who met DSM-III-R criteria for bipolar disorder and who were hospitalized for acute mania. In addition, they had a history of failing to respond to or not tolerating previous lithium carbonate treatment. Depakote was initiated at a dose of 250 mg tid and adjusted to achieve serum valproate concentrations in a range of 50-100 mcg/mL by day 7. Mean Depakote doses for completers in this study were 1,118, 1,525, and 2,402 mg/day at Days 7, 14, and 21, respectively. Patients were assessed on the Young Mania Rating Scale (YMRS; score ranges from 0-60), an augmented Brief Psychiatric Rating Scale (BPRS-A), and the Global Assessment Scale (GAS). Baseline scores and change from baseline in the Week 3 endpoint (last-observation-carry-forward) analysis were as follows:

Table 6. Study 1

YMRS Total Score			
Group	**Baseline[1]**	**BL to Wk 3[2]**	**Difference[3]**
Placebo	28.8	+ 0.2	
Depakote	28.5	- 9.5	9.7
BPRS-A Total Score			
Group	**Baseline[1]**	**BL to Wk 3[2]**	**Difference[3]**
Placebo	76.2	+ 1.8	
Depakote	76.4	-17.0	18.8
GAS Score			
Group	**Baseline[1]**	**BL to Wk 3[2]**	**Difference[3]**
Placebo	31.8	0.0	
Depakote	30.3	+ 18.1	18.1

[1] Mean score at baseline
[2] Change from baseline to Week 3 (LOCF)
[3] Difference in change from baseline to Week 3 endpoint (LOCF) between Depakote and placebo

Depakote was statistically significantly superior to placebo on all three measures of outcome.

(2) Study 2: The second study enrolled adult patients who met Research Diagnostic Criteria for manic disorder and who were hospitalized for acute mania. Depakote was initiated at a dose of 250 mg tid and adjusted within a dose range of 750-2,500 mg/day to achieve serum valproate concentrations in a range of 40-150 mcg/mL. Mean Depakote doses for completers in this study were 1,116, 1,683, and 2,006 mg/day at Days 7, 14, and 21, respectively. Study 2 also included a lithium group for which lithium doses for completers were 1,312, 1,869, and 1,984 mg/day at Days 7, 14, and 21, respectively. Patients were assessed on the Manic Rating Scale (MRS; score ranges from 11-63), and the primary outcome measures were the total MRS score, and scores for two subscales of the MRS, i.e., the Manic Syndrome Scale (MSS) and the Behavior and Ideation Scale (BIS). Baseline scores and change from baseline in the Week 3 endpoint (last-observation-carry-forward) analysis were as follows:

Table 7. Study 2

MRS Total Score			
Group	**Baseline[1]**	**BL to Day 21[2]**	**Difference[3]**
Placebo	38.9	- 4.4	
Lithium	37.9	-10.5	6.1
Depakote	38.1	- 9.5	5.1
MSS Total Score			
Group	**Baseline[1]**	**BL to Day 21[2]**	**Difference[3]**
Placebo	18.9	- 2.5	
Lithium	18.5	- 6.2	3.7
Depakote	18.9	- 6.0	3.5
BIS Total Score			

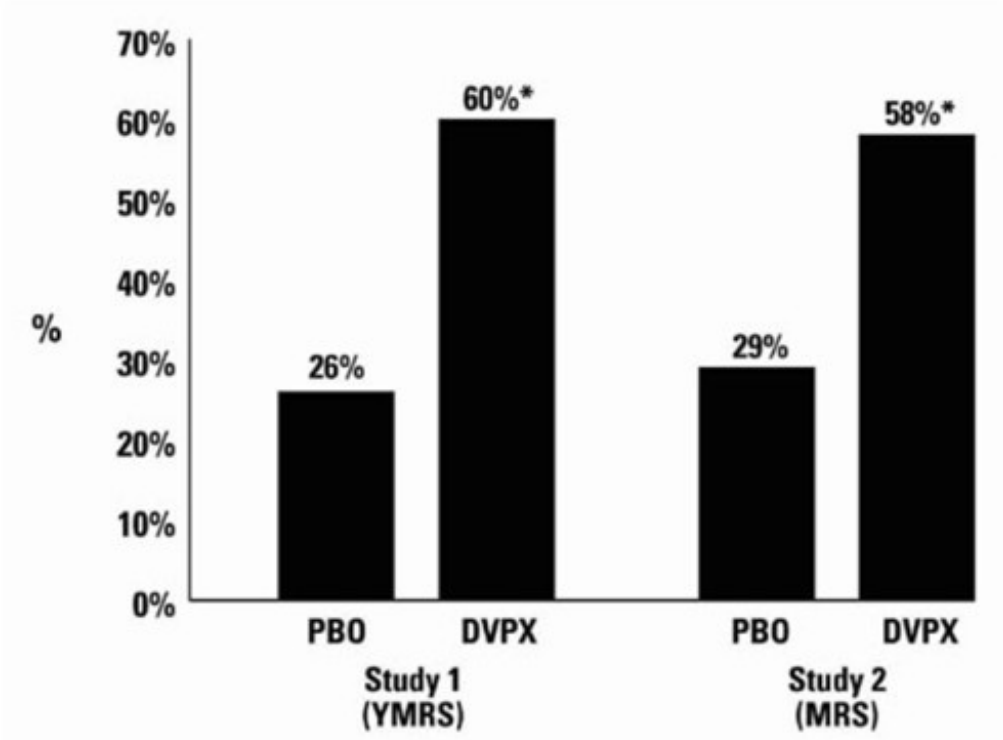
Group	Baseline[1]	BL to Day 21[2]	Difference[3]
Placebo	16.4	- 1.4	
Lithium	16.0	- 3.8	2.4
Depakote	15.7	- 3.2	1.8

[1] Mean score at baseline
[2] Change from baseline to Day 21 (LOCF)
[3] Difference in change from baseline to Day 21 endpoint (LOCF) between Depakote and placebo and lithium and placebo

Depakote was statistically significantly superior to placebo on all three measures of outcome. An exploratory analysis for age and gender effects on outcome did not suggest any differential responsiveness on the basis of age or gender.

A comparison of the percentage of patients showing ≥ 30% reduction in the symptom score from baseline in each treatment group, separated by study, is shown in Figure 1.

Figure 1



* $p < 0.05$

PBO = placebo, DVPX = Depakote

14.2 Epilepsy

The efficacy of valproate in reducing the incidence of complex partial seizures (CPS) that occur in isolation or in association with other seizure types was established in two controlled trials.

In one, multi-clinic, placebo controlled study employing an add-on design (adjunctive therapy), 144 patients who continued to suffer eight or more CPS per 8 weeks during an 8 week period of monotherapy with doses of either carbamazepine or phenytoin sufficient to assure plasma concentrations within the "therapeutic range" were

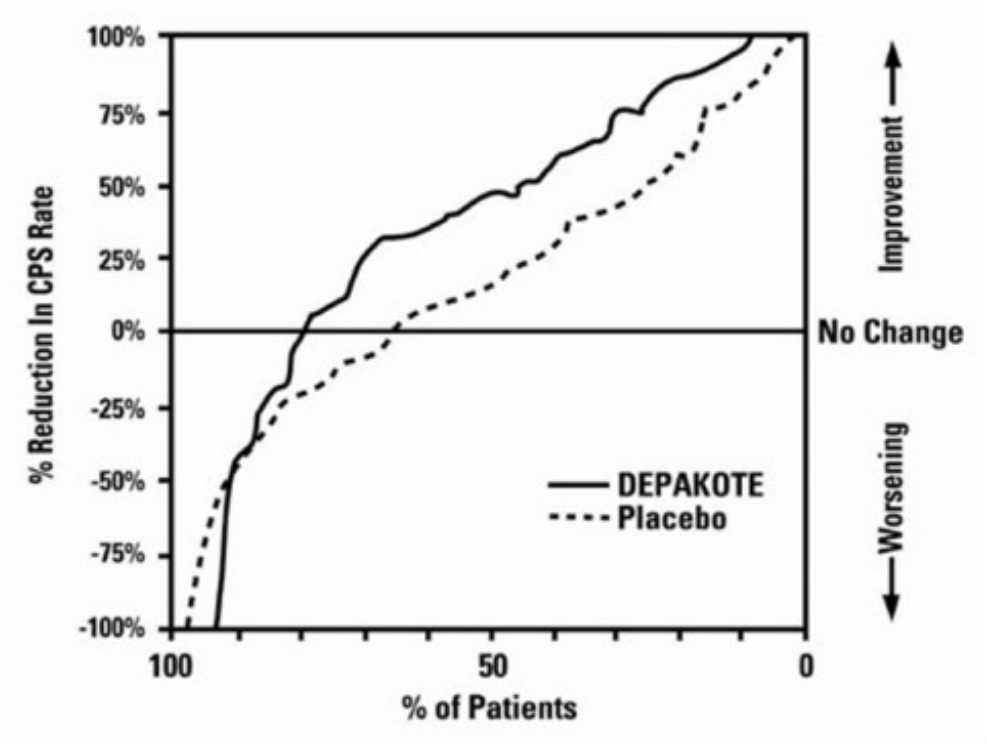
randomized to receive, in addition to their original antiepilepsy drug (AED), either Depakote or placebo. Randomized patients were to be followed for a total of 16 weeks. The following table presents the findings.

Table 8. Adjunctive Therapy Study Median Incidence of CPS per 8 Weeks

Add-on Treatment	Number of Patients	Baseline Incidence	Experimental Incidence
Depakote	75	16.0	8.9*
Placebo	69	14.5	11.5
* Reduction from baseline statistically significantly greater for valproate than placebo at $p \leq 0.05$ level.			

Figure 2 presents the proportion of patients (X axis) whose percentage reduction from baseline in complex partial seizure rates was at least as great as that indicated on the Y axis in the adjunctive therapy study. A positive percent reduction indicates an improvement (i.e., a decrease in seizure frequency), while a negative percent reduction indicates worsening. Thus, in a display of this type, the curve for an effective treatment is shifted to the left of the curve for placebo. This figure shows that the proportion of patients achieving any particular level of improvement was consistently higher for valproate than for placebo. For example, 45% of patients treated with valproate had a ≥ 50% reduction in complex partial seizure rate compared to 23% of patients treated with placebo.

Figure 2



The second study assessed the capacity of valproate to reduce the incidence of CPS when administered as the sole AED. The study compared the incidence of CPS among patients randomized to either a high or low dose treatment arm. Patients qualified for

entry into the randomized comparison phase of this study only if 1) they continued to experience 2 or more CPS per 4 weeks during an 8 to 12 week long period of monotherapy with adequate doses of an AED (i.e., phenytoin, carbamazepine, phenobarbital, or primidone) and 2) they made a successful transition over a two week interval to valproate. Patients entering the randomized phase were then brought to their assigned target dose, gradually tapered off their concomitant AED and followed for an interval as long as 22 weeks. Less than 50% of the patients randomized, however, completed the study. In patients converted to Depakote monotherapy, the mean total valproate concentrations during monotherapy were 71 and 123 mcg/mL in the low dose and high dose groups, respectively.

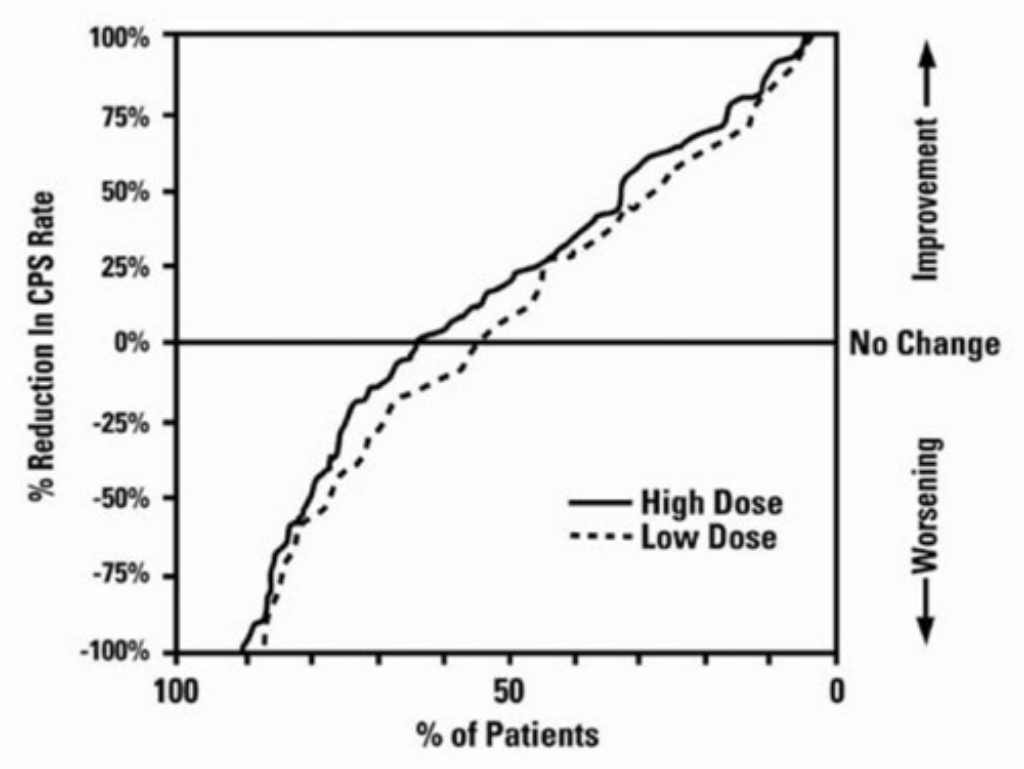
The following table presents the findings for all patients randomized who had at least one post-randomization assessment.

Table 9. Monotherapy Study Median Incidence of CPS per 8 Weeks

Treatment	Number of Patients	Baseline Incidence	Randomized Phase Incidence
High dose Depakote	131	13.2	10.7*
Low dose Depakote	134	14.2	13.8
* Reduction from baseline statistically significantly greater for high dose than low dose at $p \leq 0.05$ level.			

Figure 3 presents the proportion of patients (X axis) whose percentage reduction from baseline in complex partial seizure rates was at least as great as that indicated on the Y axis in the monotherapy study. A positive percent reduction indicates an improvement (i.e., a decrease in seizure frequency), while a negative percent reduction indicates worsening. Thus, in a display of this type, the curve for a more effective treatment is shifted to the left of the curve for a less effective treatment. This figure shows that the proportion of patients achieving any particular level of reduction was consistently higher for high dose valproate than for low dose valproate. For example, when switching from carbamazepine, phenytoin, phenobarbital or primidone monotherapy to high dose valproate monotherapy, 63% of patients experienced no change or a reduction in complex partial seizure rates compared to 54% of patients receiving low dose valproate.

Figure 3



Information on pediatric studies is presented in section 8.

14.3 Migraine

The results of two multicenter, randomized, double-blind, placebo-controlled clinical trials established the effectiveness of Depakote in the prophylactic treatment of migraine headache.

Both studies employed essentially identical designs and recruited patients with a history of migraine with or without aura (of at least 6 months in duration) who were experiencing at least 2 migraine headaches a month during the 3 months prior to enrollment. Patients with cluster headaches were excluded. Women of childbearing potential were excluded entirely from one study, but were permitted in the other if they were deemed to be practicing an effective method of contraception.

In each study following a 4-week single-blind placebo baseline period, patients were randomized, under double blind conditions, to Depakote or placebo for a 12-week treatment phase, comprised of a 4-week dose titration period followed by an 8-week maintenance period. Treatment outcome was assessed on the basis of 4-week migraine headache rates during the treatment phase.

In the first study, a total of 107 patients (24 M, 83 F), ranging in age from 26 to 73 were randomized 2:1, Depakote to placebo. Ninety patients completed the 8-week maintenance period. Drug dose titration, using 250 mg tablets, was individualized at the investigator's discretion. Adjustments were guided by actual/sham trough total serum valproate levels in order to maintain the study blind. In patients on Depakote doses ranged from 500 to 2,500 mg a day. Doses over 500 mg were given in three divided doses (TID). The mean dose during the treatment phase was 1,087 mg/day resulting in a mean trough total valproate level of 72.5 mcg/mL, with a range of 31 to 133 mcg/mL.

The mean 4-week migraine headache rate during the treatment phase was 5.7 in the placebo group compared to 3.5 in the Depakote group (see Figure 4). These rates were

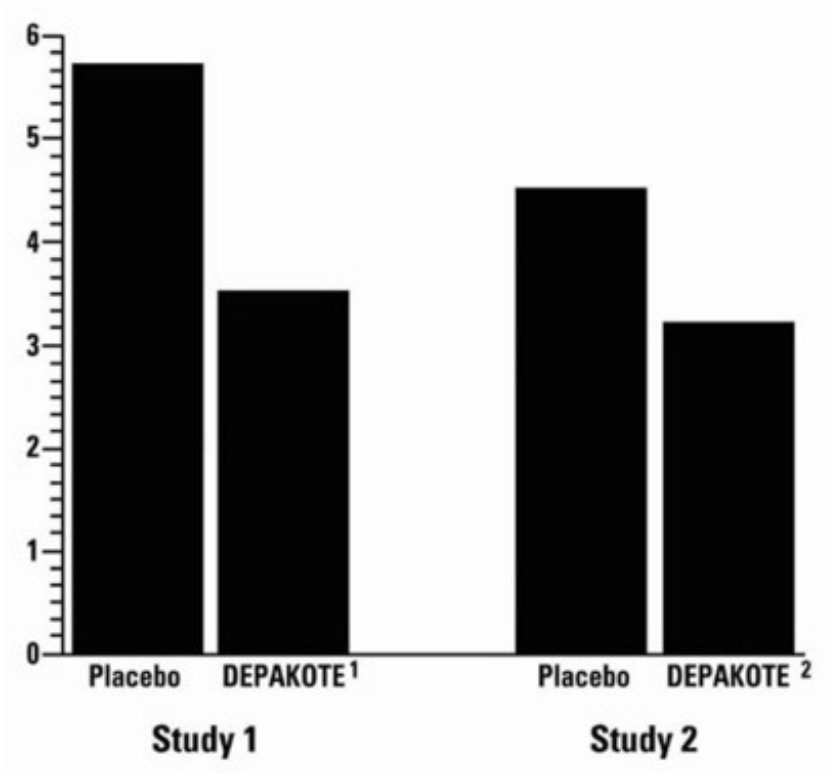
significantly different.

In the second study, a total of 176 patients (19 males and 157 females), ranging in age from 17 to 76 years, were randomized equally to one of three Depakote dose groups (500, 1,000, or 1,500 mg/day) or placebo. The treatments were given in two divided doses (BID). One hundred thirty-seven patients completed the 8-week maintenance period. Efficacy was to be determined by a comparison of the 4-week migraine headache rate in the combined 1,000/1,500 mg/day group and placebo group.

The initial dose was 250 mg daily. The regimen was advanced by 250 mg every 4 days (8 days for 500 mg/day group), until the randomized dose was achieved. The mean trough total valproate levels during the treatment phase were 39.6, 62.5, and 72.5 mcg/mL in the Depakote 500, 1,000, and 1,500 mg/day groups, respectively.

The mean 4-week migraine headache rates during the treatment phase, adjusted for differences in baseline rates, were 4.5 in the placebo group, compared to 3.3, 3.0, and 3.3 in the Depakote 500, 1,000, and 1,500 mg/day groups, respectively, based on intent-to-treat results (see Figure 4). Migraine headache rates in the combined Depakote 1,000/1,500 mg group were significantly lower than in the placebo group.

Figure 4 Mean 4-week Migraine Rates



1 Mean dose of Depakote was 1,087 mg/day.

2 Dose of Depakote was 500 or 1,000 mg/day.

15 REFERENCES

1. Meador KJ, Baker GA, Browning N, et al. Fetal antiepileptic drug exposure and cognitive outcomes at age 6 years (NEAD study): a prospective observational study. Lancet Neurology 2013; 12 (3):244-252.

16 HOW SUPPLIED/STORAGE AND HANDLING

Depakote tablets (divalproex sodium delayed-release tablets) are supplied as:

125 mg salmon pink-colored tablets:
- Bottles of 100, tablets with the “a” logo and the code NT – NDC 0074-6212-13
- Bottles of 100, tablets with the code NT – NDC 0074-7325-13

250 mg peach-colored tablets:
- Bottles of 100, tablets with the “a” logo and the code NR – NDC 0074-6214-13
- Bottles of 100, tablets with the code NR – NDC 0074-7326-13

500 mg lavender-colored tablets:
- Bottles of 100, tablets with the “a” logo and the code NS – NDC 0074-6215-13
- Bottles of 100, tablets with the code NS – NDC 0074-7327-13

Recommended Storage: Store tablets below 86°F (30°C).

17 PATIENT COUNSELING INFORMATION

Advise the patient to read the FDA-approved patient labeling (Medication Guide).

Hepatotoxicity

Warn patients and guardians that nausea, vomiting, abdominal pain, anorexia, diarrhea, asthenia, and/or jaundice can be symptoms of hepatotoxicity and, therefore, require further medical evaluation promptly *[see Warnings and Precautions (5.1)]*.

Pancreatitis

Warn patients and guardians that abdominal pain, nausea, vomiting, and/or anorexia can be symptoms of pancreatitis and, therefore, require further medical evaluation promptly *[see Warnings and Precautions (5.5)]*.

Birth Defects, Decreased IQ, and Neurodevelopmental Disorders

Inform pregnant women and women of childbearing potential (including girls beginning the onset of puberty) that use of valproate during pregnancy increases the risk of birth defects, decreased IQ, and neurodevelopmental disorders in children who were exposed in utero *[see Warnings and Precautions (5.2, 5.3, 5.4) and Use in Specific Populations (8.1)]*. Advise women to use effective contraception while taking valproate. When appropriate, counsel these patients about alternative therapeutic options. This is particularly important when valproate use is considered for a condition not usually associated with permanent injury or death such as prophylaxis of migraine headache *[see Contraindications (4)]*.

Pregnancy Registry

Advise women of childbearing potential to discuss pregnancy planning with their doctor and to contact their doctor immediately if they think they are pregnant.

Encourage women who are taking Depakote to enroll in the North American Antiepileptic Drug (NAAED) Pregnancy Registry if they become pregnant. This registry is collecting information about the safety of antiepileptic drugs during pregnancy. To enroll, patients

can call the toll free number 1-888-233-2334 or visit the website, http://www.aedpregnancyregistry.org/ *[see Use in Specific Populations (8.1)]*.

Suicidal Thinking and Behavior

Counsel patients, their caregivers, and families that AEDs, including Depakote, may increase the risk of suicidal thoughts and behavior and 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, caregivers, and families to report behaviors of concern immediately to the healthcare providers *[see Warnings and Precautions (5.7)]*.

Hyperammonemia

Inform patients of the signs and symptoms associated with hyperammonemic encephalopathy and to notify the prescriber if any of these symptoms occur *[see Warnings and Precautions (5.9, 5.10)]*.

CNS Depression

Since valproate products may produce CNS depression, especially when combined with another CNS depressant (e.g., alcohol), advise patients not to engage in hazardous activities, such as driving an automobile or operating dangerous machinery, until it is known that they do not become drowsy from the drug.

Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS)/Multiorgan Hypersensitivity Reactions

Instruct patients that a fever associated with other organ system involvement (rash, lymphadenopathy, etc.) may be drug-related. Advise patients to report such reactions to a healthcare provider immediately *[see Warnings and Precautions (5.12)]*.

Serious Dermatologic Reactions

Advise patients of the early signs and symptoms of severe cutaneous adverse reactions and to report any occurrence immediately to a healthcare provider *[see Warnings and Precautions (5.13)]*.

Angioedema

Advise patients to discontinue Depakote and seek immediate medical care if they develop signs or symptoms of angioedema, such as facial, perioral, or upper airway swelling *[see Warnings and Precautions (5.14)]*.

Medication Residue in the Stool

Instruct patients to notify their healthcare provider if they notice a medication residue in the stool *[see Warnings and Precautions (5.20)]*.

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Mfd. by
AbbVie LTD,
Barceloneta, PR 00617

For
AbbVie Inc.,

North Chicago, IL 60064, U.S.A.

MEDICATION GUIDE
DEPAKOTE ER (dep-a-kOte)
(divalproex sodium)
Extended-Release Tablets, for oral use
DEPAKOTE (dep-a-kOte)
(divalproex sodium)
Delayed-Release Tablets, for oral use
DEPAKOTE Sprinkle Capsules (dep-a-kOte)
(divalproex sodium delayed release capsules)
for oral use

What is the most important information I should know about DEPAKOTE?
Do not stop Depakote without first talking to a healthcare provider. Stopping Depakote suddenly can cause serious problems. Stopping a seizure medicine suddenly in a patient who has epilepsy can cause seizures that will not stop (status epilepticus).
Depakote can cause serious side effects, including:
1. **Serious liver damage that can cause death, especially in children younger than 2 years old and patients with mitochondrial disorders.** The risk of getting this serious liver damage is more likely to happen within the first 6 months of treatment.

Call your healthcare provider right away if you get any of the following symptoms:
- feeling very weak, tired, or uncomfortable (malaise)
- swelling of your face
- not feeling hungry
- nausea or vomiting that does not go away
- diarrhea
- pain on the right side of your stomach (abdomen)
- dark urine
- yellowing of your skin or the whites of your eyes
- loss of seizure control in people with epilepsy

In some cases, liver damage may continue even though the medicine is stopped. Your healthcare provider will do blood tests to check your liver before and during treatment with DEPAKOTE.

2. **Depakote may harm your unborn baby.**
- If you take Depakote during pregnancy for any medical condition, your baby is at risk for serious birth defects that affect the brain and spinal cord (such as spina bifida or neural tube defects). These defects can begin in the first month, even before you know you are pregnant. Other birth defects that affect the structures of the heart, head, arms, legs, and the opening where the urine comes out (urethra) on the bottom of the penis can also happen. Decreased hearing or hearing loss can also happen.
- Birth defects may occur even in children born to women who are not taking any medicines and do not have other risk factors.

- Taking folic acid supplements before getting pregnant and during early pregnancy can lower the chance of having a baby with a neural tube defect.
- If you take Depakote during pregnancy for any medical condition, your child is at risk for having lower IQ and may be at risk for developing autism or attention deficit/hyperactivity disorder.
- There may be other medicines to treat your condition that have a lower chance of causing birth defects, decreased IQ, or other disorders in your child.
- Women who are pregnant must not take Depakote to prevent migraine headaches.
- **All women of childbearing age (including girls from the start of puberty) should talk to their healthcare provider about using other possible treatments instead of Depakote. If the decision is made to use Depakote, you should use effective birth control (contraception).**
- Tell your healthcare provider right away if you become pregnant while taking Depakote. You and your healthcare provider should decide if you will continue to take Depakote while you are pregnant.
- **Pregnancy Registry**: If you become pregnant while taking Depakote, talk to your healthcare provider about registering with the North American Antiepileptic Drug (NAAED) Pregnancy Registry. You can enroll in this registry by calling toll-free 1-888-233-2334 or by visiting the website, http://www.aedpregnancyregistry.org/. The purpose of this registry is to collect information about the safety of antiepileptic drugs during pregnancy.

3. **Swelling (Inflammation) and bleeding (hemorrhaging) of your pancreas that can cause death.**

Call your healthcare provider right away if you have any of these symptoms:
- severe stomach pain that you may also feel in your back
- nausea or vomiting that does not go away
- not feeling hungry

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

Call a 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
- suicide attempt
- 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 worried about symptoms.

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 Depakote?

Depakote ER tablets, Depakote delayed-release tablets, and Depakote Sprinkle Capsules are prescription medicines used:

- alone or with other medicines to treat:
  - complex partial seizures in adults and children 10 years of age and older
  - simple and complex absence seizures

- with other medications to treat:
  - patients with multiple seizure types that include absence seizures

Depakote ER tablets and Depakote delayed-release tablets are also used to prevent migraine headaches.

Depakote ER tablets are also used to treat acute manic or mixed episodes associated with bipolar disorder with or without psychotic features.

Depakote delayed-release tablets are also used to treat manic episodes associated with bipolar disorder.

Do not take Depakote if you:

- have liver problems.
- have or think you have a genetic liver problem caused by a mitochondrial disorder such as Alpers-Huttenlocher syndrome.
- are allergic to divalproex sodium, valproic acid, sodium valproate, or any of the ingredients in Depakote. See the end of this Medication Guide for a complete list of ingredients in Depakote.
- have a genetic problem called a urea cycle disorder.
- are taking it to prevent migraine headaches and are either pregnant or may become pregnant because you are not using effective birth control (contraception).

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

- have or have had liver problems.
- have or think you have a genetic liver problem caused by a mitochondrial disorder such as Alpers-Huttenlocher syndrome.
- drink alcohol.
- have or have had depression, suicidal thoughts or behavior, unusual changes in mood, or thoughts about self-harm.
- are male and plan to father a child. DEPAKOTE may cause fertility problems, which may affect your ability to father a child. Talk to your healthcare provider if this is a problem for you.
- are pregnant or may become pregnant. DEPAKOTE may harm your unborn baby.

See "**2. Depakote may harm your unborn baby**" above for more information.
- are breastfeeding. Depakote can pass into breast milk and may harm your baby. Talk to your healthcare provider about the best way to feed your baby if you take Depakote.

Tell your healthcare provider about all the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements. DEPAKOTE may affect the way other medicines work, and other medicines may affect how DEPAKOTE works. Using DEPAKOTE with other medicines can cause serious side effects. **Do not** start or stop other medicines without talking to your healthcare provider.
Especially tell your healthcare provider if you take:
- medicines that can affect how the liver breaks down other medicines (such as phenytoin, carbamazepine, felbamate, phenobarbital, primidone, rifampin)
- aspirin, carbapenem antibiotics, or estrogen-containing hormonal contraceptives
- methotrexate
- topiramate
- cannabidiol

You can ask your healthcare provider or pharmacist for a list of these medicines if you are not sure.
Know the medicines you take. Keep a list of them and show it to your healthcare provider and pharmacist each time you get a new medicine.

How should I take Depakote?
- Depakote comes in different dosage forms.
- Take Depakote exactly as your healthcare provider tells you. Your healthcare provider will tell you how much Depakote to take and when to take it.
- Your healthcare provider may change your dose, if needed.
- Do not change your dose of Depakote without talking to your healthcare provider.
- **Do not stop taking Depakote without first talking to your healthcare provider**. Stopping Depakote suddenly can cause serious problems. See "**What is the most important information I should know about Depakote?**".
- Swallow Depakote ER tablets or DEPAKOTE delayed-release tablets whole. **Do not** crush or chew them. Tell your healthcare provider if you cannot swallow Depakote ER tablets or DEPAKOTE delayed-release tablets whole. You may need a different medicine.
- Depakote Sprinkle Capsules may be swallowed whole, or the capsule may be opened and the contents may be mixed into a small amount of soft food, such as applesauce or pudding. **See the Instructions for Use** that comes with this Medication Guide for detailed instructions on how to use Depakote Sprinkle Capsules.
- If you miss a dose of DEPAKOTE ER tablets or DEPAKOTE delayed-release tablets, take it as soon as you remember unless it's almost time for your next dose. Take the next dose at your regular time. **Do not** take 2 doses at the same time.
- If you take too much DEPAKOTE, call your healthcare provider or poison control center right away.

What should I avoid while taking Depakote?
- **Do not** drink alcohol while taking Depakote. Depakote and alcohol can affect each other causing side effects such as sleepiness and dizziness.

- Do not drive a car, operate dangerous machinery, or do dangerous activities until you know how Depakote affects you. Depakote can slow your thinking and motor skills and may affect your vision.

What are the possible side effects of Depakote?
Call your healthcare provider right away if you have any of the symptoms listed below. Your healthcare provider may do additional tests before and during your treatment with DEPAKOTE. Your healthcare provider may reduce your dose, temporarily stop, or permanently stop treatment if you have certain side effects.
Depakote can cause serious side effects including:

- See **"What is the most important information I should know about Depakote?"**
- **bleeding problems**. Call your healthcare provider if you have any symptoms of bleeding, including:

◦ bruising or red or purple spots on your skin	◦ vomiting blood or vomit that looks like coffee grounds
◦ bleeding from your mouth or nose	◦ blood in your stools or black stools (looks like tar)
◦ cough up blood or blood clots	◦ pain and swelling in your joints

- **increased ammonia levels in your blood.** High ammonia levels can seriously affect your mental activities, slow your alertness, make you feel tired, or cause vomiting (encephalopathy). This has happened when DEPAKOTE is taken alone or with a medicine called topiramate. Call your health care provider if you have any of these symptoms.
- **low body temperature (hypothermia).** A drop in your body temperature to less than 95°F can happen during treatment with DEPAKOTE. Call your healthcare provider if you have any of the following symptoms:

◦ feeling tired	◦ drowsiness
◦ confusion	◦ coma
◦ memory loss	◦ shivering

- **severe multiorgan or skin reactions.** Treatment with DEPAKOTE may cause serious or life-threatening allergic reactions that may affect your skin or other parts of your body. Stop taking DEPAKOTE, and contact your healthcare provider or get medical help right away, if you develop any of these symptoms:

◦ skin rash	◦ swelling of your lymph nodes
◦ hives	◦ swelling of your face, eyes, lips, tongue, or throat
◦ blistering and peeling of your skin	◦ trouble swallowing or breathing

- sores in your mouth

- **drowsiness or sleepiness in the elderly.** This extreme drowsiness may cause you to eat or drink less than you normally would. Tell your healthcare provider if you are not able to eat or drink as you normally do. Your healthcare provider may start you at a lower dose of Depakote.
- **medicine residue in your stool.** Tell your healthcare provider if you have or think you may have medicine residue in your stool.

The common side effects of DEPAKOTE include:

• headache	• low blood platelet count
• weakness	• stomach burning, fullness, or bloating after eating
• sleepiness	• nausea
• dizziness	• vomiting
• tremors	• stomach pain
• difficulty falling or staying asleep	• diarrhea
• double vision	• infection
• hair loss (alopecia)	

These are not all of the possible side effects of **Depakote**.
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 Depakote?

- Store Depakote ER Tablets at room temperature between 68°F to 77°F (20°C to 25°C).
- Store Depakote delayed release tablets below 86°F (30°C).
- Store Depakote Sprinkle Capsules below 77°F (25°C).

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

General information about the safe and effective use of Depakote
Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. Do not use Depakote for a condition for which it was not prescribed. Do not give Depakote 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 Depakote that is written for health professionals.

What are the ingredients in Depakote?
Active ingredient: divalproex sodium
Inactive ingredients:

- **Depakote ER tablets:** FD&C Blue No. 1, hypromellose, lactose, microcrystalline cellulose, polyethylene glycol, potassium sorbate, propylene glycol, silicon dioxide,

titanium dioxide, and triacetin. The 500 mg tablets also contain iron oxide and polydextrose.

- **Depakote delayed-release tablets:** cellulosic polymers, diacetylated monoglycerides, povidone, pregelatinized starch (contains corn starch), silica gel, talc, titanium dioxide, and vanillin.
  - Individual tablets also contain:
    125 mg tablets: FD&C Blue No. 1 and FD&C Red No. 40,
    250 mg tablets: FD&C Yellow No. 6 and iron oxide,
    500 mg tablets: D&C Red No. 30, FD&C Blue No. 2, and iron oxide.

- **Depakote Sprinkle Capsules:** cellulosic polymers, D&C Red No. 28, FD&C Blue No. 1 gelatin, iron oxide, magnesium stearate, silica gel, titanium dioxide, and triethyl citrate.

Manufactured by:
Depakote ER tablets:
250 mg is Mfd. by AbbVie LTD, Barceloneta, PR 00617
500 mg is Mfd. by AbbVie Inc., North Chicago, IL 60064 U.S.A. or
AbbVie LTD, Barceloneta, PR 00617
For AbbVie Inc., North Chicago, IL 60064 U.S.A.
Depakote delayed-release tablets:
Mfd. by AbbVie LTD, Barceloneta, PR 00617
For AbbVie Inc., North Chicago, IL 60064, U.S.A.
Depakote Sprinkle Capsules:
AbbVie Inc., North Chicago, IL 60064, U.S.A.
For more information, go to www.rxabbvie.com or call 1-800-633-9110.

This Medication Guide has been approved by the U.S. Food and Drug Administration.
Revised: May 2025

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20100297

NDC 0074-6212-13

100 Tablets

DEPAKOTE®

DIVALPROEX SODIUM DELAYED-RELEASE TABLETS

125 mg Valproic Acid Activity

NDC 0074-7325-13

100 Tablets

DEPAKOTE®

DIVALPROEX SODIUM DELAYED-RELEASE TABLETS

125 mg Valproic Acid Activity

Dispense the accompanying Medication Guide to each patient.

Rx only abbvie

NDC 0074-6214-53

NDC 0074-6214-13

100 Tablets

DEPAKOTE®

DIVALPROEX SODIUM DELAYED-RELEASE TABLETS

250 mg Valproic Acid Activity

NDC 0074-6215-13

100 Tablets

DEPAKOTE®

DIVALPROEX SODIUM DELAYED-RELEASE TABLETS

500 mg Valproic Acid Activity

NDC 0074-7327-13

100 Tablets

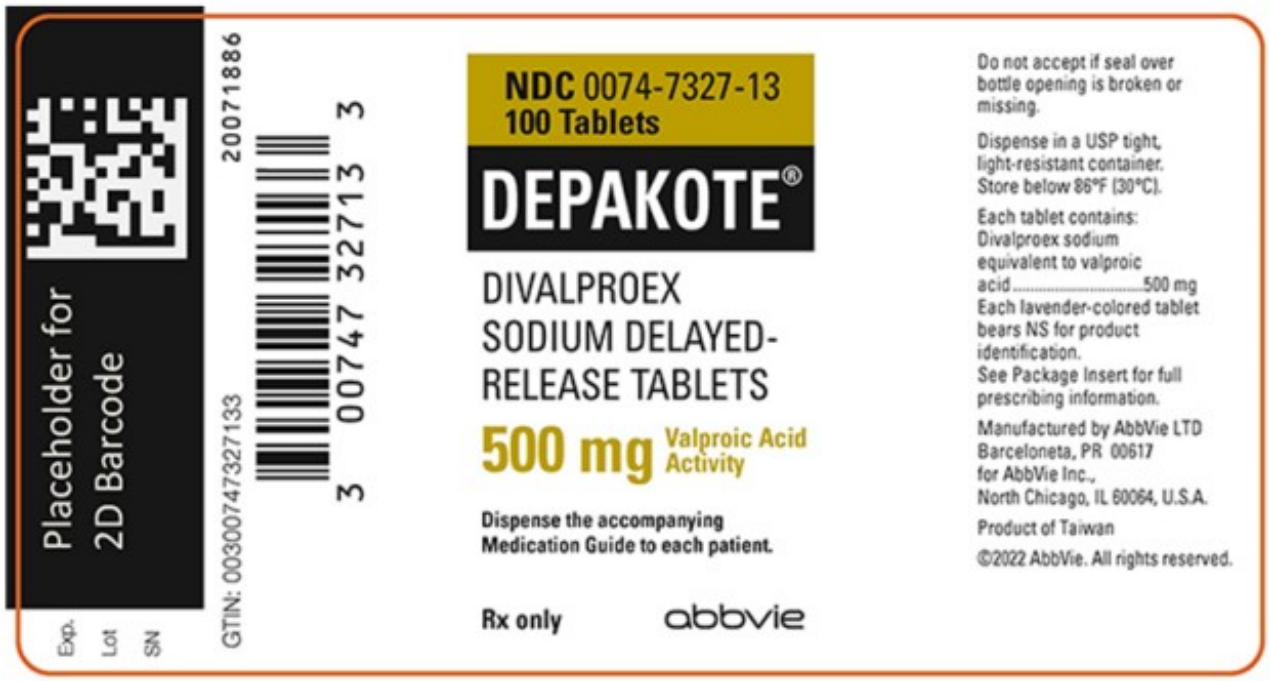
DEPAKOTE®

DIVALPROEX SODIUM DELAYED-RELEASE TABLETS

500 mg Valproic Acid Activity

Dispense the accompanying Medication Guide to each patient.

Rx only abbvie



NDC 0074-7326-13

100 Tablets

DEPAKOTE®

DIVALPROEX SODIUM DELAYED-RELEASE TABLETS

250 mg Valproic Acid Activity

Do not accept if seal over bottle opening is broken or missing.

Dispense the accompanying Medication Guide to each patient.

Rx only **abbvie**

DEPAKOTE

divalproex sodium tablet, delayed release

Product Information			
Product Type	HUMAN PRESCRIPTION DRUG	**Item Code (Source)**	NDC:0074-6212
Route of Administration	ORAL		

Active Ingredient/Active Moiety		
Ingredient Name	**Basis of Strength**	**Strength**
DIVALPROEX SODIUM (UNII: 644VL95AO6) (VALPROIC ACID - UNII:614OI1Z5WI)	VALPROIC ACID	125 mg

Inactive Ingredients	
Ingredient Name	**Strength**
DIACETYLATED MONOGLYCERIDES (UNII: 5Z17386USF)	
POVIDONE, UNSPECIFIED (UNII: FZ989GH94E)	
STARCH, CORN (UNII: O8232NY3SJ)	
SILICON DIOXIDE (UNII: ETJ7Z6XBU4)	
TALC (UNII: 7SEV7J4R1U)	
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)	
VANILLIN (UNII: CHI530446X)	
FD&C BLUE NO. 1 (UNII: H3R47K3TBD)	
FD&C RED NO. 40 (UNII: WZB9127XOA)	

Product Characteristics			
Color	pink (Salmon Pink)	**Score**	no score
Shape	OVAL (capsule-shaped)	**Size**	12mm
Flavor		**Imprint Code**	a;NT
Contains			

Packaging				
#	**Item Code**	**Package Description**	**Marketing Start Date**	**Marketing End Date**
1	NDC:0074-6212-13	100 in 1 BOTTLE; Type 0: Not a Combination Product	03/10/1983	10/05/2022

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA018723	03/10/1983	10/05/2022

DEPAKOTE

divalproex sodium tablet, delayed release

Product Information			
Product Type	HUMAN PRESCRIPTION DRUG	**Item Code (Source)**	NDC:0074-6214
Route of Administration	ORAL		

Active Ingredient/Active Moiety		
Ingredient Name	**Basis of Strength**	**Strength**
DIVALPROEX SODIUM (UNII: 644VL95AO6) (VALPROIC ACID - UNII:614OI1Z5WI)	VALPROIC ACID	250 mg

Inactive Ingredients	
Ingredient Name	**Strength**
TALC (UNII: 7SEV7J4R1U)	
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)	
VANILLIN (UNII: CHI530446X)	
FD&C YELLOW NO. 6 (UNII: H77VEI93A8)	
DIACETYLATED MONOGLYCERIDES (UNII: 5Z17386USF)	
STARCH, CORN (UNII: O8232NY3SJ)	
SILICON DIOXIDE (UNII: ETJ7Z6XBU4)	
FERRIC OXIDE RED (UNII: 1K09F3G675)	
POVIDONE, UNSPECIFIED (UNII: FZ989GH94E)	

Product Characteristics			
Color	orange (Peach)	**Score**	no score
Shape	OVAL (capsule-shaped)	**Size**	15mm
Flavor		**Imprint Code**	a;NR
Contains			

Packaging				
#	**Item Code**	**Package Description**	**Marketing Start Date**	**Marketing End Date**
1	NDC:0074-6214-13	100 in 1 BOTTLE; Type 0: Not a Combination Product	03/10/1983	03/01/2024
2	NDC:0074-6214-53	500 in 1 BOTTLE; Type 0: Not a Combination Product	03/10/1983	08/23/2021

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA018723	03/10/1983	03/01/2024

DEPAKOTE

divalproex sodium tablet, delayed release

Product Information			
Product Type	HUMAN PRESCRIPTION DRUG	**Item Code (Source)**	NDC:0074-6215
Route of Administration	ORAL		

Active Ingredient/Active Moiety		
Ingredient Name	**Basis of Strength**	**Strength**
DIVALPROEX SODIUM (UNII: 644VL95AO6) (VALPROIC ACID - UNII:614OI1Z5WI)	VALPROIC ACID	500 mg

Inactive Ingredients	
Ingredient Name	**Strength**
TALC (UNII: 7SEV7J4R1U)	
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)	
VANILLIN (UNII: CHI530446X)	
D&C RED NO. 30 (UNII: 2S42T2808B)	
FD&C BLUE NO. 2 (UNII: L06K8R7DQK)	
FERRIC OXIDE RED (UNII: 1K09F3G675)	
SILICON DIOXIDE (UNII: ETJ7Z6XBU4)	
STARCH, CORN (UNII: O8232NY3SJ)	
DIACETYLATED MONOGLYCERIDES (UNII: 5Z17386USF)	
POVIDONE, UNSPECIFIED (UNII: FZ989GH94E)	

Product Characteristics			
Color	purple (lavender)	**Score**	no score
Shape	OVAL (capsule-shaped)	**Size**	19mm
Flavor		**Imprint Code**	a;NS
Contains			

Packaging				
#	**Item Code**	**Package Description**	**Marketing Start Date**	**Marketing End Date**
1	NDC:0074-6215-13	100 in 1 BOTTLE; Type 0: Not a Combination Product	03/10/1983	02/25/2024
2	NDC:0074-6215-53	500 in 1 BOTTLE; Type 0: Not a Combination Product	03/10/1983	08/19/2021

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA018723	03/10/1983	02/25/2024

DEPAKOTE

divalproex sodium tablet, delayed release

Product Information			
Product Type	HUMAN PRESCRIPTION DRUG	**Item Code (Source)**	NDC:0074-7325
Route of Administration	ORAL		

Active Ingredient/Active Moiety		
Ingredient Name	**Basis of Strength**	**Strength**
DIVALPROEX SODIUM (UNII: 644VL95AO6) (VALPROIC ACID - UNII:614OI1Z5WI)	VALPROIC ACID	125 mg

Inactive Ingredients	
Ingredient Name	**Strength**
TALC (UNII: 7SEV7J4R1U)	
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)	
VANILLIN (UNII: CHI530446X)	
FD&C BLUE NO. 1 (UNII: H3R47K3TBD)	
FD&C RED NO. 40 (UNII: WZB9127XOA)	
DIACETYLATED MONOGLYCERIDES (UNII: 5Z17386USF)	
SILICON DIOXIDE (UNII: ETJ7Z6XBU4)	
STARCH, CORN (UNII: O8232NY3SJ)	
POVIDONE, UNSPECIFIED (UNII: FZ989GH94E)	

Product Characteristics			
Color	pink	**Score**	no score
Shape	OVAL	**Size**	12mm
Flavor		**Imprint Code**	NT
Contains			

Packaging				
#	**Item Code**	**Package Description**	**Marketing Start Date**	**Marketing End Date**
1	NDC:0074-7325-13	100 in 1 BOTTLE; Type 0: Not a Combination Product	03/10/1983	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA018723	03/10/1983	

DEPAKOTE

divalproex sodium tablet, delayed release

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	**Item Code (Source)**	NDC:0074-7327
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
DIVALPROEX SODIUM (UNII: 644VL95AO6) (VALPROIC ACID - UNII:614OI1Z5WI)	VALPROIC ACID	500 mg

Inactive Ingredients

Ingredient Name	Strength
TALC (UNII: 7SEV7J4R1U)	
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)	
VANILLIN (UNII: CHI530446X)	
D&C RED NO. 30 (UNII: 2S42T2808B)	
FD&C BLUE NO. 2 (UNII: L06K8R7DQK)	
FERRIC OXIDE RED (UNII: 1K09F3G675)	
SILICON DIOXIDE (UNII: ETJ7Z6XBU4)	
STARCH, CORN (UNII: O8232NY3SJ)	
DIACETYLATED MONOGLYCERIDES (UNII: 5Z17386USF)	
POVIDONE, UNSPECIFIED (UNII: FZ989GH94E)	

Product Characteristics

Color	purple	**Score**	no score
Shape	OVAL	**Size**	19mm
Flavor		**Imprint Code**	NS
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0074-7327-13	100 in 1 BOTTLE; Type 0: Not a Combination Product	03/10/1983	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA018723	03/10/1983	

DEPAKOTE

divalproex sodium tablet, delayed release

Product Information			
Product Type	HUMAN PRESCRIPTION DRUG	**Item Code (Source)**	NDC:0074-7326
Route of Administration	ORAL		

Active Ingredient/Active Moiety		
Ingredient Name	**Basis of Strength**	**Strength**
DIVALPROEX SODIUM (UNII: 644VL95AO6) (VALPROIC ACID - UNII:614OI1Z5WI)	VALPROIC ACID	250 mg

Inactive Ingredients	
Ingredient Name	**Strength**
DIACETYLATED MONOGLYCERIDES (UNII: 5Z17386USF)	
POVIDONE, UNSPECIFIED (UNII: FZ989GH94E)	
STARCH, CORN (UNII: O8232NY3SJ)	
SILICON DIOXIDE (UNII: ETJ7Z6XBU4)	
TALC (UNII: 7SEV7J4R1U)	
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)	
VANILLIN (UNII: CHI530446X)	
FD&C YELLOW NO. 6 (UNII: H77VEI93A8)	
FERRIC OXIDE RED (UNII: 1K09F3G675)	

Product Characteristics			
Color	orange (Peach)	**Score**	no score
Shape	OVAL	**Size**	15mm
Flavor		**Imprint Code**	NR
Contains			

Packaging				
#	**Item Code**	**Package Description**	**Marketing Start Date**	**Marketing End Date**
1	NDC:0074-7326-13	100 in 1 BOTTLE; Type 0: Not a Combination Product	06/30/2023	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA018723	06/30/2023	

Labeler - AbbVie Inc. (078458370)

Registrant - AbbVie Inc. (078458370)

Revised: 3/2026

AbbVie Inc.