PHENYTOIN- phenytoin tablet, chewable
Mylan Pharmaceuticals Inc.

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

PHENYTOIN chewable tablets, for oral use
Initial U.S. Approval: 1953

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RECENT MAJOR CHANGES

Warnings and Precautions (5.6) 10/2018

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INDICATIONS AND USAGE

Phenytoin chewable tablets are indicated for the treatment of generalized tonic-clonic (grand mal) and complex partial (psychomotor, temporal lobe) seizures and prevention and treatment of seizures occurring during or following neurosurgery. (1)

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DOSAGE AND ADMINISTRATION

- NOT FOR ONCE-A-DAY DOSING (2.1)
- Adult starting dose in patients who have received no previous treatment is two phenytoin chewable tablets three times a day, with dose adjustments as necessary. For most adults, the satisfactory maintenance dose will be six to eight phenytoin chewable tablets daily; an increase to twelve phenytoin chewable tablets daily may be made, if necessary. (2.2)
- Pediatric starting dose is 5 mg/kg/day in two to three equally divided doses, with dosage adjustments as necessary, up to a maximum of 300 mg daily. Maintenance dosage is 4 to 8 mg/kg/day. (2.3)
- Serum blood level determinations may be necessary for optimal dosage adjustments—the clinically effective serum total concentration is 10 to 20 mcg/mL (unbound phenytoin concentration is 1 to 2 mcg/mL). (2.4)

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DOSAGE FORMS AND STRENGTHS

Phenytoin chewable tablets are available as 50 mg phenytoin scored chewable tablets. (3)

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CONTRAINDICATIONS

- Hypersensitivity to phenytoin, its ingredients, or other hydantoins (4, 5.5)
- A history of prior acute hepatotoxicity attributable to phenytoin (4, 5.7)
- Coadministration with delavirdine (4)

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WARNINGS AND PRECAUTIONS

- Withdrawal Precipitated Seizure: May precipitate status epilepticus. Dose reductions or discontinuation should be done gradually. (5.1)
- Suicidal Behavior and Ideation: Monitor patients for the emergence or worsening of depression, suicidal thoughts or behavior, and/or any unusual changes in mood or behavior. (5.2)
- Serious Dermatologic Reactions: Discontinue phenytoin chewable tablets at the first sign of a rash, unless the rash is clearly not drug-related. If signs or symptoms suggest SJS/TEN, use of this drug should not be resumed and alternative therapy should be considered. (5.3)
- Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS)/Multiorgan Hypersensitivity: If signs or symptoms of hypersensitivity are present, evaluate the patient immediately. Discontinue if an alternative etiology cannot be established. (5.4)
- Cardiac Effects: Bradycardia and cardiac arrest have been reported. (5.6)
- Hepatic Injury: Cases of acute hepatotoxicity have been reported with phenytoin chewable tablets. If this occurs, immediately discontinue. (4, 5.7)
- Hematopoietic Complications: If occurs, follow-up observation is indicated and an alternative antiepileptic treatment should be used. (5.8)

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ADVERSE REACTIONS

The most common adverse reactions are nervous system reactions, including nystagmus, ataxia, slurred speech, decreased coordination, somnolence, and mental confusion. (6)

To report SUSPECTED ADVERSE REACTIONS, contact Mylan at 1-877-446-3679 (1-877-4-INFO-RX) or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.
Multiple drug interactions because of extensive plasma protein binding, saturable metabolism and potent induction of hepatic enzymes. (7.1, 7.2)

**USE IN SPECIFIC POPULATIONS**

- *Pregnancy:* Prenatal exposure to phenytoin may increase the risks for congenital malformations and other adverse developmental outcomes. (5.12, 8.1)
- *Renal and/or Hepatic Impairment or Hypoalbuminemia:* Monitor unbound phenytoin concentrations in these patients. (8.6)

See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.  

Revised: 4/2019
FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE
Phenytoin chewable tablets are indicated for the treatment of generalized tonic-clonic (grand mal) and complex partial (psychomotor, temporal lobe) seizures and prevention and treatment of seizures occurring during or following neurosurgery.

2 DOSAGE AND ADMINISTRATION
2.1 Important Administration Instructions
NOT FOR ONCE-A-DAY DOSING. Phenytoin chewable tablets can be either chewed thoroughly before being swallowed or swallowed whole.

2.2 Adult Dosage
The recommended starting dosage for adult patients who have received no previous treatment is two 50 mg phenytoin chewable tablets by mouth three times daily. Adjust the dosage to suit individual requirements up to a maximum of twelve phenytoin chewable tablets daily. For most adults, the satisfactory maintenance dosage will be six to eight phenytoin chewable tablets daily.

2.3 Pediatric Dosage
The recommended starting dosage for pediatric patients is 5 mg/kg/day by mouth in two or three equally divided doses, with subsequent dosage individualized to a maximum of 300 mg daily in divided doses. A recommended daily maintenance dosage is usually 4 to 8 mg/kg/day in equally divided doses. Children over 6 years and adolescents may require the minimum adult dosage (300 mg/day). If the daily dosage cannot be divided equally, the larger dose should be given before retiring.

2.4 Dosage Adjustments
Dosage should be individualized to provide maximum benefit. In some cases, serum blood level determinations may be necessary for optimal dosage adjustments. Trough levels provide information about clinically effective serum level range and confirm patient compliance, and are obtained just prior to the patient's next scheduled dose. Peak levels indicate an individual's threshold for emergence of
dose-related side effects and are obtained at the time of expected peak concentration. Therapeutic effect without clinical signs of toxicity occurs more often with serum total concentrations between 10 and 20 mcg/mL (unbound phenytoin concentrations of 1 to 2 mcg/mL), although some mild cases of tonic-clonic (grand mal) epilepsy may be controlled with lower serum levels of phenytoin. In patients with renal or hepatic disease, or in those with hypoalbuminemia, the monitoring of unbound phenytoin concentrations may be more relevant [see Dosage and Administration (2.6)].

With recommended dosage, a period of seven to ten days may be required to achieve steady-state blood levels with phenytoin and changes in dosage (increase or decrease) should not be carried out at intervals shorter than seven to ten days.

2.5 Switching Between Phenytoin Formulations

The free acid form of phenytoin is used in phenytoin suspension and phenytoin chewable tablets. Phenytoin extended capsules and parenteral phenytoin are formulated with the sodium salt of phenytoin. Because there is approximately an 8% increase in drug content with the free acid form over that of the sodium salt, dosage adjustments and serum level monitoring may be necessary when switching from a product formulated with the free acid to a product formulated with the sodium salt and vice versa.

2.6 Dosing in Patients with Renal or Hepatic Impairment or Hypoalbuminemia

Because the fraction of unbound phenytoin is increased in patients with renal or hepatic disease, or in those with hypoalbuminemia, the monitoring of phenytoin serum levels should be based on the unbound fraction in those patients [see Warnings and Precautions (5.10) and Use in Specific Populations (8.6)].

2.7 Geriatric Dosage

Phenytoin clearance is decreased slightly in elderly patients and lower or less frequent dosing may be required [see Clinical Pharmacology (12.3)].

2.8 Dosing during Pregnancy

Decreased serum concentrations of phenytoin may occur during pregnancy because of altered phenytoin pharmacokinetics. Periodic measurement of serum phenytoin concentrations should be performed during pregnancy, and the phenytoin chewable tablets dosage should be adjusted as necessary. Postpartum restoration of the original dosage will probably be indicated [see Use in Specific Populations (8.1)]. Because of potential changes in protein binding during pregnancy, the monitoring of phenytoin serum levels should be based on the unbound fraction.

3 DOSAGE FORMS AND STRENGTHS

Phenytoin Chewable Tablets, USP are available containing 50 mg of phenytoin, USP.

• The 50 mg tablets are pink, round, scored tablets debossed with M above the score and P50 below the score on one side of the tablet and blank on the other side. The tablets are peppermint flavored.

4 CONTRAINDICATIONS

Phenytoin chewable tablets are contraindicated in patients with:

• A history of hypersensitivity to phenytoin, its inactive ingredients, or other hydantoins [see Warnings and Precautions (5.5)].
• A history of prior acute hepatotoxicity attributable to phenytoin [see Warnings and Precautions (5.7)].
• Coadministration with delavirdine because of the potential for loss of virologic response and
5 WARNINGS AND PRECAUTIONS

5.1 Withdrawal Precipitated Seizure, Status Epilepticus

Abrupt withdrawal of phenytoin in epileptic patients may precipitate status epilepticus. When, in the judgment of the clinician, the need for dosage reduction, discontinuation, or substitution of alternative anticonvulsant medication arises, this should be done gradually. However, in the event of an allergic or hypersensitivity reaction, more rapid substitution of alternative therapy may be necessary. In this case, alternative therapy should be an anticonvulsant not belonging to the hydantoin chemical class.

5.2 Suicidal Behavior and Ideation

Antiepileptic drugs (AEDs), including phenytoin chewable tablets, 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 to 100 years) in the clinical trials analyzed.

Table 1 shows absolute and relative risk by indication for all evaluated AEDs.

<table>
<thead>
<tr>
<th>Indication</th>
<th>Placebo Patients with Events Per 1000 Patients</th>
<th>Drug Patients with Events Per 1000 Patients</th>
<th>Relative Risk: Incidence of Events in Drug Patients/Incidence in Placebo Patients</th>
<th>Risk Difference: Additional Drug Patients with Events Per 1000 Patients</th>
</tr>
</thead>
<tbody>
<tr>
<td>Epilepsy</td>
<td>1.0</td>
<td>3.4</td>
<td>3.5</td>
<td>2.4</td>
</tr>
<tr>
<td>Psychiatric</td>
<td>5.7</td>
<td>8.5</td>
<td>1.5</td>
<td>2.9</td>
</tr>
<tr>
<td>Other</td>
<td>1.0</td>
<td>1.8</td>
<td>1.9</td>
<td>0.9</td>
</tr>
<tr>
<td>Total</td>
<td>2.4</td>
<td>4.3</td>
<td>1.8</td>
<td>1.9</td>
</tr>
</tbody>
</table>

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

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

### 5.3 Serious Dermatologic Reactions

Serious and sometimes fatal dermatologic reactions, including toxic epidermal necrolysis (TEN) and Stevens-Johnson syndrome (SJS), have been reported with phenytoin treatment. The onset of symptoms is usually within 28 days, but can occur later. Phenytoin chewable tablets should be discontinued at the first sign of a rash, unless the rash is clearly not drug-related. If signs or symptoms suggest SJS/TEN, use of this drug should not be resumed and alternative therapy should be considered. 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 (5.4)].

Studies in patients of Chinese ancestry have found a strong association between the risk of developing SJS/TEN and the presence of HLA-B*1502, an inherited allelic variant of the HLA B gene, in patients using carbamazepine. Limited evidence suggests that HLA-B*1502 may be a risk factor for the development of SJS/TEN in patients of Asian ancestry taking other antiepileptic drugs associated with SJS/TEN, including phenytoin. Consideration should be given to avoiding phenytoin as an alternative for carbamazepine in patients positive for HLA-B*1502.

The use of HLA-B*1502 genotyping has important limitations and must never substitute for appropriate clinical vigilance and patient management. The role of other possible factors in the development of, and morbidity from, SJS/TEN, such as antiepileptic drug (AED) dose, compliance, concomitant medications, comorbidities, and the level of dermatologic monitoring have not been studied.

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

Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS), also known as Multiorgan hypersensitivity, has been reported in patients taking antiepileptic drugs, including phenytoin chewable tablets. Some of these events have been 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. Phenytoin chewable tablets should be discontinued if an alternative etiology for the signs or symptoms cannot be established.

### 5.5 Hypersensitivity

Phenytoin chewable tablets and other hydantoins are contraindicated in patients who have experienced phenytoin hypersensitivity [see Contraindications (4)]. Additionally, consider alternatives to structurally
similar drugs such as carboxamides (e.g., carbamazepine), barbiturates, succinimides, and oxazolidinediones (e.g., trimethadione) in these same patients. Similarly, if there is a history of hypersensitivity reactions to these structurally similar drugs in the patient or immediate family members, consider alternatives to phenytoin chewable tablets.

5.6 Cardiac Effects

Cases of bradycardia and cardiac arrest have been reported in phenytoin chewable tablets-treated patients, both at recommended phenytoin doses and levels, and in association with phenytoin toxicity [see Overdosage (10)]. Most of the reports of cardiac arrest occurred in patients with underlying cardiac disease.

5.7 Hepatic Injury

Cases of acute hepatotoxicity, including infrequent cases of acute hepatic failure, have been reported with phenytoin chewable tablets. These events may be part of the spectrum of DRESS or may occur in isolation [see Warnings and Precautions (5.4)]. Other common manifestations include jaundice, hepatomegaly, elevated serum transaminase levels, leukocytosis, and eosinophilia. The clinical course of acute phenytoin hepatotoxicity ranges from prompt recovery to fatal outcomes. In these patients with acute hepatotoxicity, phenytoin chewable tablets should be immediately discontinued and not readministered.

5.8 Hematopoietic Complications

Hematopoietic complications, some fatal, have occasionally been reported in association with administration of phenytoin chewable tablets. These have included thrombocytopenia, leukopenia, granulocytopenia, agranulocytosis, and pancytopenia with or without bone marrow suppression.

There have been a number of reports suggesting a relationship between phenytoin and the development of lymphadenopathy (local or generalized) including benign lymph node hyperplasia, pseudolymphoma, lymphoma, and Hodgkin's disease. Although a cause and effect relationship has not been established, the occurrence of lymphadenopathy indicates the need to differentiate such a condition from other types of lymph node pathology. Lymph node involvement may occur with or without symptoms and signs of DRESS [see Warnings and Precautions (5.4)].

In all cases of lymphadenopathy, follow-up observation for an extended period is indicated and every effort should be made to achieve seizure control using alternative antiepileptic drugs.

5.9 Effects on Vitamin D and Bone

The chronic use of phenytoin in patients with epilepsy has been associated with decreased bone mineral density (osteopenia, osteoporosis, and osteomalacia) and bone fractures. Phenytoin induces hepatic metabolizing enzymes. This may enhance the metabolism of vitamin D and decrease vitamin D levels, which may lead to vitamin D deficiency, hypocalcemia, and hypophosphatemia. Consideration should be given to screening with bone-related laboratory and radiological tests as appropriate and initiating treatment plans according to established guidelines.

5.10 Renal or Hepatic Impairment or Hypoalbuminemia

Because the fraction of unbound phenytoin is increased in patients with renal or hepatic disease, or in those with hypoalbuminemia, the monitoring of phenytoin serum levels should be based on the unbound fraction in those patients.

5.11 Exacerbation of Porphyria

In view of isolated reports associating phenytoin with exacerbation of porphyria, caution should be exercised in using this medication in patients suffering from this disease.
5.12 Teratogenicity and Other Harm to the Newborn
Phenytoin chewable tablets may cause fetal harm when administered to a pregnant woman. Prenatal exposure to phenytoin may increase the risks for congenital malformations and other adverse developmental outcomes [see Use in Specific Populations (8.1)].

Increased frequencies of major malformations (such as orofacial clefts and cardiac defects), and abnormalities characteristic of fetal hydantoin syndrome, including dysmorphic skull and facial features, nail and digit hypoplasia, growth abnormalities (including microcephaly), and cognitive deficits, have been reported among children born to epileptic women who took phenytoin alone or in combination with other antiepileptic drugs during pregnancy. There have been several reported cases of malignancies, including neuroblastoma.

A potentially life-threatening bleeding disorder related to decreased levels of vitamin K-dependent clotting factors may occur in newborns exposed to phenytoin in utero. This drug-induced condition can be prevented with vitamin K administration to the mother before delivery and to the neonate after birth.

5.13 Slow Metabolizers of Phenytoin
A small percentage of individuals who have been treated with phenytoin have been shown to metabolize the drug slowly. Slow metabolism may be caused by limited enzyme availability and lack of induction; it appears to be genetically determined. If early signs of dose-related central nervous system (CNS) toxicity develop, serum levels should be checked immediately.

5.14 Hyperglycemia
Hyperglycemia, resulting from the drug's inhibitory effects on insulin release, has been reported. Phenytoin may also raise the serum glucose level in diabetic patients.

5.15 Serum Phenytoin Levels above Therapeutic Range
Serum levels of phenytoin sustained above the therapeutic range may produce confusional states referred to as “delirium,” “psychosis,” or “encephalopathy,” or rarely irreversible cerebellar dysfunction and/or cerebellar atrophy. Accordingly, at the first sign of acute toxicity, serum levels should be immediately checked. Dose reduction of phenytoin therapy is indicated if serum levels are excessive; if symptoms persist, termination is recommended.

6 ADVERSE REACTIONS
The following serious adverse reactions are described elsewhere in the labeling:

- Withdrawal Precipitated Seizure, Status Epilepticus [see Warnings and Precautions (5.1)]
- Suicidal Behavior and Ideation [see Warnings and Precautions (5.2)]
- Serious Dermatologic Reactions [see Warnings and Precautions (5.3)]
- Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS)/Multiorgan Hypersensitivity [see Warnings and Precautions (5.4)]
- Hypersensitivity [see Warnings and Precautions (5.5)]
- Cardiac Effects [see Warnings and Precautions (5.6)]
- Hepatic Injury [see Warnings and Precautions (5.7)]
- Hematopoietic Complications [see Warnings and Precautions (5.8)]
- Effects on Vitamin D and Bone [see Warnings and Precautions (5.9)]
- Exacerbation of Porphyria [see Warnings and Precautions (5.11)]
- Teratogenicity and Other Harm to the Newborn [see Warnings and Precautions (5.12)]
- Hyperglycemia [see Warnings and Precautions (5.14)]
The following adverse reactions associated with the use of phenytoin chewable tablets were identified in clinical studies or postmarketing reports. 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.

**Body as a Whole:** Allergic reactions in the form of rash and rarely more serious forms and DRESS have been observed [see Warnings and Precautions (5.3, 5.4)]. Anaphylaxis has also been reported.

There have also been reports of coarsening of facial features, systemic lupus erythematosus, periarteritis nodosa, and immunoglobulin abnormalities.

**Digestive System:** Acute hepatic failure, toxic hepatitis, liver damage, nausea, vomiting, constipation, enlargement of the lips, and gingival hyperplasia.

**Hematologic and Lymphatic System:** Hematopoietic complications, some fatal, have occasionally been reported in association with administration of phenytoin. These have included thrombocytopenia, leukopenia, granulocytopenia, agranulocytosis, and pancytopenia with or without bone marrow suppression. While macrocytosis and megaloblastic anemia have occurred, these conditions usually respond to folic acid therapy. Lymphadenopathy including benign lymph node hyperplasia, pseudolymphoma, lymphoma, and Hodgkin's disease have been reported [see Warnings and Precautions (5.8)].

**Laboratory Test Abnormality:** Phenytoin may decrease serum concentrations of thyroid hormone (T4 and T3), sometimes with an accompanying increase in thyroid-stimulating hormone (TSH), but usually in the absence of clinical hypothyroidism. Phenytoin may also produce lower than normal values for dexamethasone or metyrapone tests. Phenytoin may cause increased serum levels of glucose [see Warnings and Precautions (5.14)], alkaline phosphatase, and gamma glutamyl transpeptidase (GGT).

**Nervous System:** The most common adverse reactions encountered with phenytoin therapy are nervous system reactions and are usually dose-related. Reactions include nystagmus, ataxia, slurred speech, decreased coordination, somnolence, and mental confusion. Dizziness, vertigo, insomnia, transient nervousness, motor twitchings, paresthesias, and headaches have also been observed. There have also been rare reports of phenytoin-induced dyskinesias, including chorea, dystonia, tremor and asterixis, similar to those induced by phenothiazine and other neuroleptic drugs. Cerebellar atrophy has been reported, and appears more likely in settings of elevated phenytoin levels and/or long-term phenytoin use [see Warnings and Precautions (5.15)].

A predominantly sensory peripheral polyneuropathy has been observed in patients receiving long-term phenytoin therapy.

**Skin and Appendages:** Dermatological manifestations sometimes accompanied by fever have included scarlatiniform or morbilliform rashes. A morbilliform rash (measles-like) is the most common; other types of dermatitis are seen more rarely. Other more serious forms which may be fatal have included bullous, exfoliative or purpuric dermatitis, Stevens-Johnson syndrome, and toxic epidermal necrolysis [see Warnings and Precautions (5.3)]. There have also been reports of hypertrichosis.

**Special Senses:** Altered taste sensation including metallic taste.

**Urogenital:** Peyronie's disease

**7 DRUG INTERACTIONS**

Phenytoin is extensively bound to plasma proteins and is prone to competitive displacement. Phenytoin is metabolized by hepatic cytochrome P450 enzymes CYP2C9 and CYP2C19, and is particularly susceptible to inhibitory drug interactions because it is subject to saturable metabolism. Inhibition of metabolism may produce significant increases in circulating phenytoin concentrations and enhance the risk of drug toxicity. Monitoring of phenytoin serum levels is recommended when a drug interaction is suspected.
Phenytoin is a potent inducer of hepatic drug-metabolizing enzymes.

7.1 Drugs that Affect Phenytoin Concentrations

Table 2 includes commonly occurring drug interactions that affect phenytoin concentrations. However, this list is not intended to be inclusive or comprehensive. Individual prescribing information from relevant drugs should be consulted.

The addition or withdrawal of these agents in patients on phenytoin therapy may require an adjustment of the phenytoin dose to achieve optimal clinical outcome.

Table 2: Drugs That Affect Phenytoin Concentrations

<table>
<thead>
<tr>
<th>Interacting Agent</th>
<th>Examples</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drugs that may increase phenytoin serum levels</td>
<td></td>
</tr>
<tr>
<td>Antiepileptic drugs</td>
<td>Ethosuximide, felbamate, oxcarbazepine, methsuximide, topiramate</td>
</tr>
<tr>
<td>Azoles</td>
<td>Fluconazole, ketoconazole, itraconazole, miconazole, voriconazole</td>
</tr>
<tr>
<td>Antineoplastic agents</td>
<td>Capecitabine, fluorouracil</td>
</tr>
<tr>
<td>Antidepressants</td>
<td>Fluoxetine, fluvoxamine, sertraline</td>
</tr>
<tr>
<td>Gastric acid reducing agents</td>
<td>H$_2$ antagonists (cimetidine), omeprazole</td>
</tr>
<tr>
<td>Sulfonamides</td>
<td>Sulfamethizole, sulfaphenazole, sulfadiazine, sulfamethoxazole-trimethoprim</td>
</tr>
<tr>
<td>Other</td>
<td>Acute alcohol intake, amiodarone, chloramphenicol, chlordiazepoxide, disulfiram, estrogen, fluvasatin, isoniazid, methylphenidate, phenothiazines, salicylates, ticlopidine, tolbutamide, trazodone, warfarin</td>
</tr>
<tr>
<td>Drugs that may decrease phenytoin serum levels</td>
<td></td>
</tr>
<tr>
<td>Antacids*</td>
<td>Calcium carbonate, aluminum hydroxide, magnesium hydroxide</td>
</tr>
<tr>
<td>Prevention or Management: Phenytoin and antacids should not be taken at the same time of day.</td>
<td></td>
</tr>
<tr>
<td>Antineoplastic agents usually in combination</td>
<td>Bleomycin, carboplatin, cisplatin, doxorubicin, methotrexate</td>
</tr>
<tr>
<td>Antiviral agents</td>
<td>Fosamprenavir, nelfinavir, ritonavir</td>
</tr>
<tr>
<td>Antiepileptic drugs</td>
<td>Carbamazepine, vigabatrin</td>
</tr>
<tr>
<td>Other</td>
<td>Chronic alcohol abuse, diazepam, diazoxide, folic acid, reserpine, rifampin, St. John’s wort†, sucralfate, theophylline</td>
</tr>
<tr>
<td>Drugs that may either increase or decrease phenytoin serum levels</td>
<td></td>
</tr>
<tr>
<td>Antiepileptic drugs</td>
<td>Phenobarbital, valproate sodium, valproic acid</td>
</tr>
</tbody>
</table>

* Antacids may affect absorption of phenytoin.
† The induction potency of St. John’s wort may vary widely based on preparation.

7.2 Drugs Affected by Phenytoin

Table 3 includes commonly occurring drug interactions affected by phenytoin. However, this list is not intended to be inclusive or comprehensive. Individual drug package inserts should be consulted. The addition or withdrawal of phenytoin during concomitant therapy with these agents may require adjustment of the dose of these agents to achieve optimal clinical outcome.

Table 3: Drugs Affected by Phenytoin

<table>
<thead>
<tr>
<th>Interacting Agent</th>
<th>Examples</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drugs whose efficacy is impaired by phenytoin</td>
<td></td>
</tr>
<tr>
<td>Azoles</td>
<td>Fluconazole, ketoconazole, itraconazole, posaconazole,</td>
</tr>
</tbody>
</table>
7.3 Drug Enteral Feeding/Nutritional Preparations Interaction

Literature reports suggest that patients who have received enteral feeding preparations and/or related nutritional supplements have lower than expected phenytoin serum levels. It is therefore suggested that phenytoin not be administered concomitantly with an enteral feeding preparation. More frequent serum phenytoin level monitoring may be necessary in these patients.

7.4 Drug/Laboratory Test Interactions

Care should be taken when using immunoanalytical methods to measure serum phenytoin concentrations.

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), such as phenytoin chewable tablets, during pregnancy. Physicians are advised to recommend that pregnant patients taking phenytoin chewable tablets enroll in the North American Antiepileptic Drug (NAAED) Pregnancy Registry. This can be done by calling the toll free number 1-888-233-2334, and must be done by patients themselves. Information on the registry can also be found at the website http://www.aedpregnancyregistry.org/.

**Risk Summary**

In humans, prenatal exposure to phenytoin may increase the risks for congenital malformations and other adverse developmental outcomes. Prenatal phenytoin exposure is associated with an increased incidence of major malformations, including orofacial clefts and cardiac defects. In addition, the fetal hydantoin syndrome, a pattern of abnormalities including dysmorphic skull and facial features, nail and digit hypoplasia, growth abnormalities (including microcephaly), and cognitive deficits has been reported among children born to epileptic women who took phenytoin alone or in combination with other antiepileptic drugs during pregnancy [see Data]. There have been several reported cases of malignancies, including neuroblastoma, in children whose mothers received phenytoin during pregnancy.

Administration of phenytoin to pregnant animals resulted in an increased incidence of fetal malformations and other manifestations of developmental toxicity (including embryofetal death, growth impairment, and behavioral abnormalities) in multiple species at clinically relevant doses [see Data].

In the U.S. general population, the estimated background risk of major birth defects and of miscarriage in clinically recognized pregnancies is 2 to 4% and 15 to 20%, respectively. The background risk of major birth defects and miscarriage for the indicated population is unknown.

**Clinical Considerations**

**Disease-Associated Maternal Risk**

An increase in seizure frequency may occur during pregnancy because of altered phenytoin pharmacokinetics. Periodic measurement of serum phenytoin concentrations may be valuable in the management of pregnant women as a guide to appropriate adjustment of dosage [see Dosage and Administration (2.4, 2.8)]. However, postpartum restoration of the original dosage will probably be indicated [see Clinical Pharmacology (12.3)].

**Fetal/Neonatal Adverse Reactions**

A potentially life-threatening bleeding disorder related to decreased levels of vitamin K-dependent clotting factors may occur in newborns exposed to phenytoin in utero. This drug-induced condition can be prevented with vitamin K administration to the mother before delivery and to the neonate after birth.

**Data**

**Human Data**

Meta-analyses using data from published observational studies and registries have estimated an approximately 2.4-fold increased risk for any major malformation in children with prenatal phenytoin exposure compared to controls. An increased risk of heart defects, facial clefts, and digital hypoplasia has been reported. The fetal hydantoin syndrome is a pattern of congenital anomalies including craniofacial anomalies, nail and digital hypoplasia, prenatal-onset growth deficiency, and neurodevelopmental deficiencies.

**Animal Data**

Administration of phenytoin to pregnant rats, rabbits, and mice during organogenesis resulted in embryofetal death, fetal malformations, and decreased fetal growth. Malformations (including craniofacial, cardiovascular, neural, limb, and digit abnormalities) were observed in rats, rabbits, and
mice at doses as low as 100, 75, and 12.5 mg/kg, respectively.

8.2 Lactation

Risk Summary

Phenytoin is secreted in human milk. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for phenytoin chewable tablets and any potential adverse effects on the breastfed infant from phenytoin chewable tablets or from the underlying maternal condition.

8.4 Pediatric Use

Initially, 5 mg/kg/day in two or three equally divided doses, with subsequent dosage individualized to a maximum of 300 mg daily. A recommended daily maintenance dosage is usually 4 to 8 mg/kg. Children over 6 years and adolescents may require the minimum adult dosage (300 mg/day) [see Dosage and Administration (2.3)].

8.5 Geriatric Use

Phenytoin clearance tends to decrease with increasing age [see Clinical Pharmacology (12.3)]. Lower or less frequent dosing may be required [see Dosage and Administration (2.7)].

8.6 Renal and/or Hepatic Impairment or Hypoalbuminemia

The liver is the chief site of biotransformation of phenytoin; patients with impaired liver function, elderly patients, or those who are gravely ill may show early signs of toxicity.

Because the fraction of unbound phenytoin is increased in patients with renal or hepatic disease, or in those with hypoalbuminemia, the monitoring of phenytoin serum levels should be based on the unbound fraction in those patients.

10 OVERDOSAGE

The lethal dose in pediatric patients is not known. The lethal dose in adults is estimated to be 2 to 5 grams. The initial symptoms are nystagmus, ataxia, and dysarthria. Other signs are tremor, hyperreflexia, lethargy, slurred speech, blurred vision, nausea, and vomiting. The patient may become comatose and hypotensive. Bradycardia and cardiac arrest have been reported [see Warnings and Precautions (5.6)]. Death is caused by respiratory and circulatory depression.

There are marked variations among individuals with respect to phenytoin serum levels where toxicity may occur. Nystagmus, on lateral gaze, usually appears at 20 mcg/mL, ataxia at 30 mcg/mL; dysarthria and lethargy appear when the serum concentration is over 40 mcg/mL, but as high a concentration as 50 mcg/mL has been reported without evidence of toxicity. As much as 25 times the therapeutic dose has been taken to result in a serum concentration over 100 mcg/mL with complete recovery. Irreversible cerebellar dysfunction and atrophy have been reported.

Treatment: Treatment is nonspecific since there is no known antidote.

The adequacy of the respiratory and circulatory systems should be carefully observed and appropriate supportive measures employed. Hemodialysis can be considered since phenytoin is not completely bound to plasma proteins. Total exchange transfusion has been used in the treatment of severe intoxication in pediatric patients.

In acute overdosage the possibility of other CNS depressants, including alcohol, should be borne in mind.

11 DESCRIPTION
Phenytoin is related to the barbiturates in chemical structure, but has a five-membered ring. The chemical name is 5,5-Diphenylhydantoin, having the following structural formula:

![Phenytoin Structural Formula](image)

Each phenytoin chewable tablet for oral administration, contains 50 mg phenytoin. Also contains: colloidal silicon dioxide, compressible sugar, corn starch, D&C Red No. 30 Aluminum Lake, magnesium stearate, peppermint flavor and talc.

**12 CLINICAL PHARMACOLOGY**

**12.1 Mechanism of Action**

The precise mechanism by which phenytoin exerts its therapeutic effect has not been established but is thought to involve the voltage-dependent blockade of membrane sodium channels resulting in a reduction in sustained high-frequency neuronal discharges.

**12.3 Pharmacokinetics**

**Absorption**

For phenytoin chewable tablets, peak levels occur 1½ to 3 hours after administration. Steady-state therapeutic levels are achieved at least 7 to 10 days (5 to 7 half-lives) after initiation of therapy with recommended doses of 300 mg/day. When serum level determinations are necessary, they should be obtained at least 5 to 7 half-lives after treatment initiation, dosage change, or addition or subtraction of another drug to the regimen so that equilibrium or steady-state will have been achieved.

Clinical studies show that chewed and unchewed phenytoin chewable tablets are bioequivalent, yield approximately equivalent serum levels, and are more rapidly absorbed than 100 mg phenytoin extended capsules.

**Distribution**

Phenytoin is extensively bound to serum plasma proteins.

**Elimination**

Clinical studies using phenytoin chewable tablets have shown an average plasma half-life of 14 hours with a range of 7 to 29 hours.

**Metabolism**

Phenytoin is metabolized by hepatic cytochrome P450 enzymes CYP2C9 and CYP2C19. Because phenytoin is hydroxylated in the liver by an enzyme system which is saturable at high serum levels, small incremental doses may increase the half-life and produce very substantial increases in serum levels, when these are in the upper range. The steady-state level may be disproportionately increased, with resultant intoxication, from an increase in dosage of 10% or more.

In most patients maintained at a steady dosage, stable phenytoin serum levels are achieved. There may be
wide interpatient variability in phenytoin serum levels with equivalent dosages. Patients with unusually low levels may be noncompliant or hypermetabolizers of phenytoin. Unusually high levels result from liver disease, variant CYP2C9 and CYP2C19 alleles, or drug interactions which result in metabolic interference. The patient with large variations in phenytoin serum levels, despite standard doses, presents a difficult clinical problem. Serum level determinations in such patients may be particularly helpful. As phenytoin is highly protein bound, free phenytoin levels may be altered in patients whose protein binding characteristics differ from normal.

Excretion
Most of the drug is excreted in the bile as inactive metabolites which are then reabsorbed from the intestinal tract and excreted in the urine. Urinary excretion of phenytoin and its metabolites occurs partly with glomerular filtration but, more importantly, by tubular secretion.

Specific Populations
Age

Geriatric Population
Phenytoin clearance tends to decrease with increasing age (20% less in patients over 70 years of age relative to that in patients 20 to 30 years of age). Since phenytoin clearance is decreased slightly in elderly patients, lower or less frequent dosing may be required [see Dosage and Administration (2.7)].

Sex/Race
Gender and race have no significant impact on phenytoin pharmacokinetics.

Renal or Hepatic Impairment
Increased fraction of unbound phenytoin in patients with renal or hepatic disease, or in those with hypoalbuminemia has been reported.

Pregnancy
It has been reported in the literature that the plasma clearance of phenytoin generally increased during pregnancy, reached a peak in the third trimester and returned to the level of pre-pregnancy after few weeks or months of delivery.

Drug Interaction Studies
Phenytoin is metabolized by hepatic cytochrome P450 enzymes CYP2C9 and CYP2C19. Phenytoin is a potent inducer of hepatic drug-metabolizing enzymes [see Drug Interactions (7.1, 7.2)].

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenesis
[see Warnings and Precautions (5.7)]
In carcinogenicity studies, phenytoin was administered in the diet to mice (10, 25, or 45 mg/kg/day) and rats (25, 50, or 100 mg/kg/day) for 2 years. The incidences of hepatocellular tumors were increased in male and female mice at the highest dose. No increases in tumor incidence were observed in rats. The highest doses tested in these studies were associated with peak serum phenytoin levels below human therapeutic concentrations.
In carcinogenicity studies reported in the literature, phenytoin was administered in the diet for 2 years at doses up to 600 ppm (approximately 160 mg/kg/day) to mice and up to 2400 ppm (approximately 120 mg/kg/day) to rats. The incidences of hepatocellular tumors were increased in female mice at all but the lowest dose tested. No increases in tumor incidence were observed in rats.

**Mutagenesis**

Phenytoin was negative in the Ames test and in the *in vitro* clastogenicity assay in Chinese hamster ovary (CHO) cells.

In studies reported in the literature, phenytoin was negative in the *in vitro* mouse lymphoma assay and the *in vivo* micronucleus assay in mouse. Phenytoin was clastogenic in the *in vitro* sister chromatid exchange assay in CHO cells.

**Fertility**

Phenytoin has not been adequately assessed for effects on male or female fertility.

16 HOW SUPPLIED/STORAGE AND HANDLING

16.1 How Supplied

Phenytoin Chewable Tablets, USP are available containing 50 mg of phenytoin, USP.

The 50 mg tablets are pink, round, scored tablets debossed with \( M \) above the score and \( P50 \) below the score on one side of the tablet and blank on the other side. The tablets are peppermint flavored. They are available as follows:

NDC 0378-3850-01
bottles of 100 tablets

NDC 0378-3850-05
bottles of 500 tablets

16.2 Storage and Handling

*Store at 20° to 25°C (68° to 77°F). [See USP Controlled Room Temperature.]*

*Protect from moisture.*

Dispense in a tight, light-resistant container as defined in the USP using a child-resistant closure.

**PHARMACIST:** Dispense a Medication Guide with each prescription.

17 PATIENT COUNSELING INFORMATION

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

**Administration Information:** Advise patients taking phenytoin of the importance of adhering strictly to the prescribed dosage regimen, and of informing the physician of any clinical condition in which it is not possible to take the drug orally as prescribed, e.g., surgery, etc.

**Withdrawal of Antiepileptic Drugs:** Advise patients not to discontinue use of phenytoin chewable tablets without consulting with their healthcare provider. Phenytoin chewable tablets should normally be gradually withdrawn to reduce the potential for increased seizure frequency and status epilepticus [see Warnings and Precautions (5.1)].

**Suicidal Ideation and Behavior:** Counsel patients, their caregivers, and families that AEDs, including phenytoin chewable tablets, may increase the risk of suicidal thoughts and behavior and advise them of the need to be alert for the emergence or worsening of symptoms of depression, any unusual changes in mood or behavior, or the emergence of suicidal thoughts, behavior, or thoughts about self-harm.
Behaviors of concern should be reported immediately to healthcare providers [see Warnings and Precautions (5.2)].

**Potential Signs of Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS) and Other Systemic Reactions:** Advise patients of the early toxic signs and symptoms of potential hematologic, dermatologic, hypersensitivity, or hepatic reactions. These symptoms may include, but are not limited to, fever, sore throat, rash, ulcers in the mouth, easy bruising, lymphadenopathy, facial swelling, and petechial or purpuric hemorrhage, and in the case of liver reactions, anorexia, nausea/vomiting, or jaundice. Advise the patient that, because these signs and symptoms may signal a serious reaction, that they must report any occurrence immediately to a physician. In addition, advise the patient that these signs and symptoms should be reported even if mild or when occurring after extended use [see Warnings and Precautions (5.3, 5.4, 5.5, 5.7, 5.8)].

**Cardiac Effects:** Counsel patients that cases of bradycardia and cardiac arrest have been reported, both at recommended phenytoin doses and levels, and in association with phenytoin toxicity. Patients should report cardiac signs or symptoms to their healthcare provider [see Warnings and Precautions (5.6) and Overdosage (10)].

**Effects of Alcohol Use and Other Drugs and Over-the-Counter Drug Interactions:** Caution patients against the use of other drugs or alcoholic beverages without first seeking their physician's advice [see Drug Interactions (7.1, 7.2)].

Inform patients that certain over-the-counter medications (e.g., antacids, cimetidine, and omeprazole), vitamins (e.g., folic acid), and herbal supplements (e.g., St. John's wort) can alter their phenytoin levels.

**Hyperglycemia:** Advise patients that phenytoin chewable tablets may cause an increase in blood glucose levels [see Warnings and Precautions (5.13)].

**Gingival Hyperplasia:** Advise patients of the importance of good dental hygiene in order to minimize the development of gingival hyperplasia and its complications.

**Neurologic Effects:** Counsel patients that phenytoin chewable tablets may cause dizziness, gait disturbance, decreased coordination and somnolence. Advise patients taking phenytoin chewable tablets not to drive, operate complex machinery, or engage in other hazardous activities until they have become accustomed to any such effects associated with phenytoin chewable tablets.

**Use in Pregnancy:** Inform pregnant women and women of childbearing potential that use of phenytoin chewable tablets during pregnancy can cause fetal harm, including an increased risk for cleft lip and/or cleft palate (oral clefts), cardiac defects, dysmorphic skull and facial features, nail and digit hypoplasia, growth abnormalities (including microcephaly), and cognitive deficits. When appropriate, counsel pregnant women and women of childbearing potential about alternative therapeutic options. Advise women of childbearing potential who are not planning a pregnancy to use effective contraception while using phenytoin chewable tablets, keeping in mind that there is a potential for decreased hormonal contraceptive efficacy [see Drug Interactions (7.2)].

Instruct patients to notify their physician if they become pregnant or intend to become pregnant during therapy, and to notify their physician if they are breastfeeding or intend to breastfeed during therapy [see Use in Specific Populations (8.1, 8.2)].

Encourage patients 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 [see Use in Specific Populations (8.1)].

**Medication Guide**

Phenytoin Chewable Tablets, USP (fen′ i toyn)
What is the most important information I should know about phenytoin chewable tablets?

1. Do not stop taking phenytoin chewable tablets without first talking to your healthcare provider.
   - Stopping phenytoin chewable tablets suddenly can cause serious problems.
   - Stopping a seizure medicine suddenly can cause you to have seizures more often or seizures that will not stop (status epilepticus).

2. Like other antiepileptic drugs, phenytoin chewable tablets 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
   - Attempts to commit suicide
   - New or worse depression
   - New or worse anxiety
   - Feeling agitated or restless
   - Panic attacks
   - Trouble sleeping (insomnia)
   - New or worse irritability
   - Acting aggressive, being angry, or violent
   - Acting on dangerous impulses
   - An extreme increase in activity and talking (mania)
   - Other unusual changes in behavior or mood

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

   How can I watch for early symptoms of suicidal thoughts and actions?
   - Pay attention to any changes, especially sudden changes, in mood, behaviors, thoughts, or feelings.
   - Keep all follow-up visits with your healthcare provider as scheduled.

   Call your healthcare provider between visits as needed, especially if you are worried about symptoms.

3. Phenytoin chewable tablets can cause a type of serious allergic reaction that may affect different parts of the body such as your liver, kidneys, blood, heart, skin or other parts of your body. These can be very serious and cause death. Call your healthcare provider right away if you have any or all of these symptoms:
   - Fever
   - Rash
   - Swollen lymph glands
   - Swelling of your face, eye, lips, or tongue
   - Trouble swallowing or breathing
   - Sore throat
   - Sores in your mouth
   - Bruise easily
   - Purple or red spots on your skin
   - Increase infections
   - Not wanting to eat (anorexia)
   - Nausea
   - Vomiting
   - Yellowing of the skin and the white part of your eyes (jaundice)

   Call your healthcare provider even if the symptoms are mild or if you have been taking phenytoin chewable tablets for an extended period of time. These symptoms can be a sign of a serious allergic reaction.
What are phenytoin chewable tablets?
Phenytoin chewable tablets are a prescription medicine used to treat certain types of seizures called tonic-clonic (grand mal) and psychomotor (temporal lobe) seizures.

Do not take phenytoin chewable tablets if you:

- Are allergic to phenytoin or any of the ingredients in phenytoin chewable tablets. See the end of this leaflet for a complete list of ingredients in phenytoin chewable tablets.
- Have had an allergic reaction to CEREBYX® (fosphenytoin), PEGANONE® (ethotoin), or MESANTOIN® (mephenytoin).
- Have had liver problems from taking phenytoin.
- Take delavirdine.

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

- Have or have had depression, mood problems, or suicidal thoughts or behavior.
- Have had an allergic reaction to a medicine similar to phenytoin chewable tablets called carboxamides, barbiturates, succinimides, and oxazolidinediones.
- Have or had liver or kidney problems.
- Have or had an enzyme problem called porphyria.
- Have or had high blood sugar (hyperglycemia).
- Drink alcohol.
- Are pregnant or plan to become pregnant. Phenytoin chewable tablets may harm your unborn baby.

- If you take phenytoin chewable tablets during pregnancy, your baby is at risk for serious birth defects.
- If you become pregnant while taking phenytoin chewable tablets, the level of phenytoin in your blood may decrease, causing your seizures to become worse. Your healthcare provider may change your dose of phenytoin chewable tablets.
- If you take phenytoin chewable tablets during pregnancy, your baby is also at risk for bleeding problems right after birth. Your healthcare provider may give you and your baby medicine to prevent this.
- All women of childbearing age should talk to their healthcare provider about using other possible treatments instead of phenytoin chewable tablets.
- If you are of childbearing age and are not planning on getting pregnant, you should use effective birth control (contraception) while taking phenytoin chewable tablets.
- **Pregnancy Registry**: If you become pregnant while taking phenytoin chewable tablets, talk to your healthcare provider about registering with the North American Antiepileptic Drug Pregnancy Registry. You can enroll in this registry by calling 1-888-233-2334. The purpose of this registry is to collect information about the safety of antiepileptic drugs during pregnancy.
Tell your healthcare provider about all the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements. These medicines can change the levels of phenytoin in your blood.

Taking phenytoin chewable tablets with certain other medicines can cause side effects or affect how well they work. Do not start or stop other medicines without talking to your healthcare provider.

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

How should I take phenytoin chewable tablets?

- Take phenytoin chewable tablets exactly as your healthcare provider tells you.
- Your healthcare provider will tell you how many phenytoin chewable tablets to take and when to take them.
- Your healthcare provider may change your dose if needed. Do not change your dose of phenytoin chewable tablets without talking to your healthcare provider.
- If your healthcare provider has prescribed phenytoin oral suspension, ask your pharmacist for a medicine dropper or medicine cup to help you measure the correct amount of phenytoin. Do not use a household teaspoon. Ask your pharmacist for instructions on how to use the measuring device the right way.
- Do not stop taking phenytoin chewable tablets without first talking to your healthcare provider. Stopping phenytoin chewable tablets suddenly can cause serious problems.

What should I avoid while taking phenytoin chewable tablets?

- Do not drink alcohol while you take phenytoin chewable tablets without first talking to your healthcare provider. Drinking alcohol while taking phenytoin chewable tablets may change your blood levels of phenytoin which can cause serious problems.
- Do not drive, operate heavy machinery, or do other dangerous activities until you know how phenytoin chewable tablets affect you. Phenytoin chewable tablets can slow your thinking and motor skills.

What are the possible side effects of phenytoin chewable tablets?

See "What is the most important information I should know about phenytoin chewable tablets?"

Phenytoin chewable tablets may cause other serious side effects including:

- Liver problems.
- Low blood count which could increase your chance of getting infections, bruising, bleeding and increased fatigue.
- Softening of your bones (osteopenia, osteoporosis, and osteomalacia) can cause your bones to break (fractures).
- High blood sugar (hyperglycemia).
- High levels of phenytoin in your blood that could cause confusion also known as delirium, psychosis or a more serious condition that affects how your brain works (encephalopathy).

Call your healthcare provider right away, if you have any of the symptoms listed above.
The most common side effects of phenytoin chewable tablets include:
Phenytoin chewable tablets can cause overgrowth of your gums. Brushing and flossing your teeth and seeing a dentist regularly while taking phenytoin chewable tablets can help prevent this from happening. These are not all of the possible side effects of phenytoin chewable tablets.

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 phenytoin chewable tablets?

- Store phenytoin chewable tablets at room temperature between 20° to 25°C (68° to 77°F).
- Protect from moisture.

Keep phenytoin chewable tablets and all medicines out of the reach of children.

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

What are the ingredients in phenytoin chewable tablets?

Active ingredient: 50 mg phenytoin

Inactive ingredients: colloidal silicon dioxide, compressible sugar, corn starch, D&C Red No. 30 Aluminum Lake, magnesium stearate, peppermint flavor and talc.

For more information about phenytoin chewable tablets, call Mylan at 1-877-446-3679 (1-877-4-INFO-RX).

The brands listed are trademarks of their respective owners.
Each tablet contains:
Phenytoin, USP      50 mg

Store at 20° to 25°C (68° to 77°F). [See USP Controlled Room Temperature.]

Protect from moisture.
Dispense in a tight, light-resistant container as defined in the USP using a child-resistant closure.

Keep container tightly closed.

Keep this and all medication out of the reach of children.

Dosage and Use: Pediatric patients, 5 mg/kg daily in two or three equally divided doses initially, with subsequent dosage individualized to a maximum of 300 mg daily. See package insert for full prescribing information.

NOT FOR ONCE-A-DAY DOSING
Chewable, flavored for pediatric patients.
Phenytoin chewable tablets can be either chewed thoroughly before being swallowed or swallowed whole. Store so that pediatric patients cannot eat these flavored tablets as candy.

Mylan Pharmaceuticals Inc.
Morgantown, WV 26505 U.S.A.

RM3850A
**Route of Administration**

ORAL

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**Labeler** - Mylan Pharmaceuticals Inc. (059295980)

Revised: 4/2019