

**DOXEPIN HYDROCHLORIDE- doxepin hydrochloride tablet**  
**Mylan Pharmaceuticals Inc.**

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**HIGHLIGHTS OF PRESCRIBING INFORMATION**

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

**DOXEPIN HYDROCHLORIDE tablets for oral administration**

**Initial U.S. Approval: 1969**

----- **INDICATIONS AND USAGE** -----

Doxepin hydrochloride tablets are indicated for the treatment of insomnia characterized by difficulties with sleep maintenance. (1, 14)

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

- Initial dose: 6 mg, once daily for adults (2.1) and 3 mg, once daily for the elderly. (2.1, 2.2)
- Take within 30 minutes of bedtime. Total daily dose should not exceed 6 mg. (2.3)
- Should not be taken within 3 hours of a meal. (2.3, 12.3)

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

- 3 mg and 6 mg tablets: Tablets not scored. (3)

----- **CONTRAINDICATIONS** -----

- Hypersensitivity to doxepin hydrochloride, inactive ingredients, or other dibenzoxepines. (4.1)
- Co-administration with Monoamine Oxidase Inhibitors (MAOIs): Do not administer if patient is taking MAOIs or has used MAOIs within the past two weeks. (4.2)
- Untreated narrow angle glaucoma or severe urinary retention. (4.3)

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

- Need to Evaluate for Co-morbid Diagnoses: Reevaluate if insomnia persists after 7 to 10 days of use. (5.1)
- Abnormal thinking, behavioral changes, complex behaviors: May include “Sleep-driving” and hallucinations. Immediately evaluate any new onset behavioral changes. (5.2)
- Depression: Worsening of depression or suicidal thinking may occur. Prescribe the least amount feasible to avoid intentional overdose. (5.3)
- CNS-depressant effects: Use can impair alertness and motor coordination. Avoid engaging in hazardous activities such as operating a motor vehicle or heavy machinery after taking drug. (5.4) Do not use with alcohol. (5.4, 7.3)
- Potential additive effects when used in combination with CNS depressants or sedating antihistamines. Dose reduction may be needed. (5.4, 7.4)
- Patients with severe sleep apnea: Doxepin hydrochloride tablets are ordinarily not recommended for use in this population. (8.7)

----- **ADVERSE REACTIONS** -----

- The most common treatment-emergent adverse reactions, reported in  $\geq 2\%$  of patients treated with doxepin hydrochloride tablets, and more commonly than in patients treated with placebo, were somnolence/sedation, nausea, and upper respiratory tract infection. (6.1)

**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](http://www.fda.gov/medwatch).**

----- **DRUG INTERACTIONS** -----

- MAO inhibitors: Doxepin hydrochloride tablets should not be administered in patients on MAOIs within the past two weeks. (4.2)
- Cimetidine: Increases exposure to doxepin. (7.2)
- Alcohol: Sedative effects may be increased with doxepin. (7.3, 5.4)

- CNS Depressants and Sedating Antihistamines: Sedative effects may be increased with doxepin. (7.4, 5.4)
- Tolazamide: A case of severe hypoglycemia has been reported. (7.5)

----- **USE IN SPECIFIC POPULATIONS** -----

- Pregnancy: Based on animal data, may cause fetal harm. (8.1)
- Nursing Mothers: Infant exposure via human milk. (8.3)
- Pediatric Use: Safety and effectiveness have not been evaluated. (8.4)
- Geriatric Use: The recommended starting dose is 3 mg. Monitor prior to considering dose escalation. (2.2, 8.5)
- Use in Patients with Comorbid Illness: Initiate treatment with 3 mg in patients with hepatic impairment or tendency to urinary retention. (8.6, 4.3)

See 17 for **PATIENT COUNSELING INFORMATION** and **Medication Guide**.

**Revised: 10/2019**

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## **FULL PRESCRIBING INFORMATION**

### **1 INDICATIONS AND USAGE**

Doxepin hydrochloride tablets are indicated for the treatment of insomnia characterized by difficulty with sleep maintenance. The clinical trials performed in support of efficacy were up to 3 months in duration [see *Clinical Studies (14)*].

### **2 DOSAGE AND ADMINISTRATION**

The dose of doxepin hydrochloride tablets should be individualized.

#### **2.1. Dosing in Adults**

The recommended dose of doxepin hydrochloride tablets for adults is 6 mg once daily. A 3 mg once daily dose may be appropriate for some patients, if clinically indicated.

#### **2.2. Dosing in the Elderly**

The recommended starting dose of doxepin hydrochloride tablets in elderly patients ( $\geq 65$  years old) is 3 mg once daily. The daily dose can be increased to 6 mg, if clinically indicated.

#### **2.3. Administration**

Doxepin hydrochloride tablets should be taken within 30 minutes of bedtime.

To minimize the potential for next day effects, doxepin hydrochloride tablets should not be taken within

3 hours of a meal [see *Clinical Pharmacology* (12.3)].

The total doxepin hydrochloride tablets dose should not exceed 6 mg per day.

### 3 DOSAGE FORMS AND STRENGTHS

Doxepin Hydrochloride Tablets are available containing 3.39 mg or 6.78 mg of doxepin hydrochloride, equivalent to 3 mg or 6 mg of doxepin, respectively.

- The 3 mg tablets are blue, oval shaped, unscored tablets debossed with **3** on one side of the tablet and **SP** on the other side.
- The 6 mg tablets are green, oval shaped, unscored tablets debossed with **6** on one side of the tablet and **SP** on the other side.

### 4 CONTRAINDICATIONS

#### 4.1. Hypersensitivity

Doxepin hydrochloride tablets are contraindicated in individuals who have shown hypersensitivity to doxepin HCl, any of its inactive ingredients, or other dibenzoxepines.

#### 4.2. Co-administration with Monoamine Oxidase Inhibitors (MAOIs)

Serious side effects and even death have been reported following the concomitant use of certain drugs with MAO inhibitors. Do not administer doxepin hydrochloride tablets if patient is currently on MAOIs or has used MAOIs within the past two weeks. The exact length of time may vary depending on the particular MAOI dosage and duration of treatment.

#### 4.3. Glaucoma and Urinary Retention

Doxepin hydrochloride tablets are contraindicated in individuals with untreated narrow angle glaucoma or severe urinary retention.

### 5 WARNINGS AND PRECAUTIONS

#### 5.1. Need to Evaluate for Comorbid Diagnoses

Because sleep disturbances may be the presenting manifestation of a physical and/or psychiatric disorder, symptomatic treatment of insomnia should be initiated only after careful evaluation of the patient. **The failure of insomnia to remit after 7 to 10 days of treatment may indicate the presence of a primary psychiatric and/or medical illness that should be evaluated.** Exacerbation of insomnia or the emergence of new cognitive or behavioral abnormalities may be the consequence of an unrecognized psychiatric or physical disorder. Such findings have emerged during the course of treatment with hypnotic drugs.

#### 5.2. Abnormal Thinking and Behavioral Changes

Complex behaviors such as “sleep-driving” (i.e., driving while not fully awake after ingestion of a hypnotic, with amnesia for the event) have been reported with hypnotics. These events can occur in hypnotic-naïve as well as in hypnotic-experienced persons. Although behaviors such as “sleep-driving” may occur with hypnotics alone at therapeutic doses, the use of alcohol and other CNS depressants with hypnotics appears to increase the risk of such behaviors, as does the use of hypnotics at doses exceeding the maximum recommended dose. Due to the risk to the patient and the community, discontinuation of doxepin hydrochloride tablets should be strongly considered for patients who report a “sleep-driving” episode. Other complex behaviors (e.g., preparing and eating food, making phone calls, or having sex) have been reported in patients who are not fully awake after taking a hypnotic. As

with “sleep-driving”, patients usually do not remember these events. Amnesia, anxiety and other neuro-psychiatric symptoms may occur unpredictably.

### **5.3. Suicide Risk and Worsening of Depression**

In primarily depressed patients, worsening of depression, including suicidal thoughts and actions (including completed suicides), has been reported in association with the use of hypnotics.

Doxepin, the active ingredient in doxepin hydrochloride tablets, is an antidepressant at doses 10- to 100-fold higher than in doxepin hydrochloride tablets. Antidepressants increased the risk compared to placebo of suicidal thinking and behavior (suicidality) in children, adolescents, and young adults in short-term studies of major depressive disorder (MDD) and other psychiatric disorders. Risk from the lower dose of doxepin in doxepin hydrochloride tablets can not be excluded.

It can rarely be determined with certainty whether a particular instance of the abnormal behaviors listed above is drug induced, spontaneous in origin, or a result of an underlying psychiatric or physical disorder. Nonetheless, the emergence of any new behavioral sign or symptom of concern requires careful and immediate evaluation.

### **5.4. CNS Depressant Effects**

After taking doxepin hydrochloride tablets, patients should confine their activities to those necessary to prepare for bed. Patients should avoid engaging in hazardous activities, such as operating a motor vehicle or heavy machinery, at night after taking doxepin hydrochloride tablets, and should be cautioned about potential impairment in the performance of such activities that may occur the day following ingestion.

When taken with doxepin hydrochloride tablets, the sedative effects of alcoholic beverages, sedating antihistamines, and other CNS depressants may be potentiated [*see Warnings and Precautions (5.2) and Drug Interactions (7.3, 7.4)*]. Patients should not consume alcohol with doxepin hydrochloride tablets [*see Warnings and Precautions (5.2) and Drug Interactions (7.3)*]. Patients should be cautioned about potential additive effects of doxepin hydrochloride tablets used in combination with CNS depressants or sedating antihistamines [*see Warnings and Precautions (5.2) and Drug Interactions (7.4)*].

## **6 ADVERSE REACTIONS**

The following serious adverse reactions are discussed in greater detail in other sections of labeling:

- Abnormal thinking and behavioral changes [*see Warnings and Precautions (5.2)*].
- Suicide risk and worsening of depression [*see Warnings and Precautions (5.3)*].
- CNS Depressant effects [*see Warnings and Precautions (5.4)*].

### **6.1. Clinical Trials Experience**

The pre-marketing development program for doxepin hydrochloride tablets included doxepin HCl exposures in 1017 subjects (580 insomnia patients and 437 healthy subjects) from 12 studies conducted in the United States. 863 of these subjects (580 insomnia patients and 283 healthy subjects) participated in six randomized, placebo-controlled efficacy studies with doxepin hydrochloride tablets doses of 1 mg, 3 mg, and 6 mg for up to 3-months in duration.

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. However, data from the doxepin hydrochloride tablets studies provide the physician with a basis for estimating the relative contributions of drug and non-drug factors to adverse reaction incidence rates in the populations studied.

*Associated with Discontinuation of Treatment*

The percentage of subjects discontinuing Phase 1, 2, and 3 trials for an adverse reaction was 0.6% in the placebo group compared to 0.4%, 1.0%, and 0.7% in the doxepin hydrochloride tablets 1 mg, 3 mg, and 6 mg groups, respectively. No reaction that resulted in discontinuation occurred at a rate greater than 0.5%.

*Adverse Reactions Observed at an Incidence of  $\geq$  2% in Controlled Trials*

Table 1 shows the incidence of treatment-emergent adverse reactions from three long-term (28 to 85 days) placebo-controlled studies of doxepin hydrochloride tablets in adult (N = 221) and elderly (N = 494) subjects with chronic insomnia.

Reactions reported by Investigators were classified using a modified MedDRA dictionary of preferred terms for purposes of establishing incidence. The table includes only reactions that occurred in 2% or more of subjects who received doxepin hydrochloride tablets 3 mg or 6 mg in which the incidence in subjects treated with doxepin hydrochloride tablets was greater than the incidence in placebo-treated subjects.

**Table 1 Incidence (%) of Treatment-Emergent Adverse Reactions in Long-term Placebo-Controlled Clinical Trials**

<b>System Organ Class Preferred Term*</b>	<b>Placebo (N=278)</b>	<b>Doxepin Hydrochloride Tablets 3 mg (N=157)</b>	<b>Doxepin Hydrochloride Tablets 6 mg (N=203)</b>
<b>Nervous System Disorders</b>			
Somnolence/Sedation	4	6	9
<b>Infections and Infestations</b>			
Upper Respiratory Tract Infection/Nasopharyngitis	2	4	2
Gastroenteritis	0	2	0
<b>Gastrointestinal Disorders</b>			
Nausea	1	2	2
<b>Vascular Disorders</b>			
Hypertension	0	3	< 1

\* Includes reactions that occurred at a rate of  $\geq$  2% in any doxepin hydrochloride tablets -treated group and at a higher rate than placebo.

The most common treatment-emergent adverse reaction in the placebo and each of the doxepin hydrochloride tablets dose groups was somnolence/sedation.

**6.2. Studies Pertinent to Safety Concerns for Sleep-promoting Drugs**

*Residual Pharmacological Effect in Insomnia Trials*

Five randomized, placebo-controlled studies in adults and the elderly assessed next-day psychomotor function within 1 hour of awakening utilizing the digit-symbol substitution test (DSST), symbol copying test (SCT), and visual analog scale (VAS) for sleepiness, following night time administration of doxepin hydrochloride tablets.

In a one-night, double-blind study conducted in 565 healthy adult subjects experiencing transient insomnia, doxepin hydrochloride tablets 6 mg showed modest negative changes in SCT and VAS.

In a 35-day, double-blind, placebo-controlled, parallel group study of doxepin hydrochloride tablets 3 and 6 mg in 221 adults with chronic insomnia, small decreases in the DSST and SCT occurred in the 6 mg group.

In a 3-month, double-blind, placebo-controlled, parallel group study in 240 elderly subjects with chronic insomnia, doxepin hydrochloride tablets 1 mg and 3 mg was comparable to placebo on DSST, SCT, and VAS.

### **6.3. Other Reactions Observed During the Pre-marketing Evaluation of Silenor**

Doxepin hydrochloride tablets were administered to 1017 subjects in clinical trials in the United States. Treatment-emergent adverse reactions recorded by clinical investigators were standardized using a modified MedDRA dictionary of preferred terms. The following is a list of MedDRA terms that reflect treatment-emergent adverse reactions reported by subjects treated with doxepin hydrochloride tablets.

Adverse reactions are further categorized by body system and listed in order of decreasing frequency according to the following definitions: **Frequent** adverse reactions are those that occurred on one or more occasions in at least 1/100 subjects; **Infrequent** adverse reactions are those that occurred in fewer than 1/100 subjects and more than 1/1000 subjects. **Rare** adverse reactions are those that occurred in fewer than 1/1000 subjects. Adverse reactions that are listed in Table 1 are not included in the following listing of frequent, infrequent, and rare AEs.

*Blood and Lymphatic System Disorders:* Infrequent: anemia; Rare: thrombocythemia.

*Cardiac Disorders:* Rare: atrioventricular block, palpitations, tachycardia, ventricular extrasystoles.

*Ear and Labyrinth Disorders:* Rare: ear pain, hypoacusis, motion sickness, tinnitus, tympanic membrane perforation.

*Eye Disorders:* Infrequent: eye redness, vision blurred; Rare: blepharospasm, diplopia, eye pain, lacrimation decreased.

*Gastrointestinal Disorders:* Infrequent: abdominal pain, dry mouth, gastroesophageal reflux disease, vomiting; Rare: dyspepsia, constipation, gingival recession, haematochezia, lip blister.

*General Disorders and Administration Site Conditions:* Infrequent: asthenia, chest pain, fatigue; Rare: chills, gait abnormal, edema peripheral.

*Hepatobiliary Disorders:* Rare: hyperbilirubinemia.

*Immune System Disorders:* Rare: hypersensitivity.

*Infections and Infestations:* Infrequent: bronchitis, fungal infection, laryngitis, sinusitis, tooth infection, urinary tract infection, viral infection; Rare: cellulitis staphylococcal, eye infection, folliculitis, gastroenteritis viral, herpes zoster, infective tenosynovitis, influenza, lower respiratory tract infection, onychomycosis, pharyngitis, pneumonia.

*Injury, Poisoning and Procedural Complications:* Infrequent: back injury, fall, joint sprain; Rare: bone fracture, skin laceration.

*Investigations:* Infrequent: blood glucose increased; Rare: alanine aminotransferase increased, blood pressure decreased, blood pressure increased, electrocardiogram ST-T segment abnormal, electrocardiogram QRS complex abnormal, heart rate decreased, neutrophil count decreased, QRS axis abnormal, transaminases increased.

*Metabolism and Nutrition Disorders:* Infrequent: anorexia, decreased appetite, hyperkalemia, hypermagnesemia, increased appetite; Rare: hypokalemia.

*Musculoskeletal and Connective Tissue Disorders:* Infrequent: arthralgia, back pain, myalgia, neck pain, pain in extremity; Rare: joint range of motion decreased, muscle cramp, sensation of heaviness.

*Neoplasms Benign, Malignant and Unspecified (Including Cysts and Polyps):* Rare: lung adenocarcinoma stage I, malignant melanoma.

*Nervous System Disorders:* Frequent: dizziness; Infrequent: dysgeusia, lethargy, parasthesia, syncope; Rare: ageusia, ataxia, cerebrovascular accident, disturbance in attention, migraine, sleep paralysis, syncope vasovagal, tremor.

*Psychiatric Disorders:* Infrequent: abnormal dreams, adjustment disorder, anxiety, depression; Rare: confusional state, elevated mood, insomnia, libido decreased, nightmare.

*Reproductive System and Breast Disorders:* Rare: breast cyst, dysmenorrhea.

*Renal and Urinary Disorders:* Rare: dysuria, enuresis, hemoglobinuria, nocturia.

*Respiratory, Thoracic and Mediastinal Disorders:* Infrequent: nasal congestion, pharyngolaryngeal pain, sinus congestion, wheezing; Rare: cough, crackles lung, nasopharyngeal disorder, rhinorrhea, dyspnea.

*Skin and Subcutaneous Tissue Disorders:* Infrequent: skin irritation; Rare: cold sweat, dermatitis, erythema, hyperhidrosis, pruritis, rash, rosacea.

*Surgical and Medical Procedures:* Rare: arthrodesis.

*Vascular Disorders:* Infrequent: pallor; Rare: blood pressure inadequately controlled, hematoma, hot flush.

In addition, the reactions below have been reported for other tricyclics and may be idiosyncratic (not related to dose).

*Allergic:* photosensitization, skin rash.

*Hematologic:* agranulocytosis, eosinophilia, leukopenia, purpura, thrombocytopenia.

## **7 DRUG INTERACTIONS**

### **7.1. Cytochrome P450 Isozymes**

Doxepin hydrochloride is primarily metabolized by hepatic cytochrome P450 isozymes CYP2C19 and CYP2D6, and to a lesser extent, by CYP1A2 and CYP2C9. Inhibitors of these isozymes may increase the exposure of doxepin. Doxepin hydrochloride is not an inhibitor of any CYP isozymes at therapeutically relevant concentrations. The ability of doxepin hydrochloride to induce CYP isozymes is not known.

### **7.2. Cimetidine**

Doxepin hydrochloride exposure is doubled with concomitant administration of cimetidine, a nonspecific inhibitor of CYP isozymes. A maximum dose of 3 mg is recommended in adults and elderly when cimetidine is co-administered with doxepin hydrochloride tablets [see *Clinical Pharmacology* (12.4)].

### **7.3. Alcohol**

When taken with doxepin hydrochloride tablets, the sedative effects of alcohol may be potentiated [see *Warnings and Precautions* (5.2, 5.4)].

### **7.4. CNS Depressants and Sedating Antihistamines**



When taken with doxepin hydrochloride tablets, the sedative effects of sedating antihistamines and CNS depressants may be potentiated [*see Warnings and Precautions (5.2, 5.4)*].

### **7.5. Tolazamide**

A case of severe hypoglycemia has been reported in a type II diabetic patient maintained on tolazamide (1 g/day) 11 days after the addition of oral doxepin (75 mg/day).

## **8 USE IN SPECIFIC POPULATIONS**

### **8.1 Pregnancy**

#### *Pregnancy Category C*

There are no adequate and well-controlled studies of doxepin hydrochloride tablets in pregnant women. Doxepin hydrochloride tablets should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus. Administration of doxepin to pregnant animals resulted in adverse effects on offspring development at doses greater than the maximum recommended human dose (MRHD) of 6 mg/day.

When doxepin (30, 100 and 150 mg/kg/day) was administered orally to pregnant rats during the period of organogenesis, developmental toxicity (increased incidences of fetal structural abnormalities and decreased fetal body weights) was noted at  $\geq 100$  mg/kg/day. The plasma exposures (AUC) at the no-effect dose for embryo-fetal developmental toxicity in rats (30 mg/kg/day) are approximately 6 and 3 times the plasma AUCs for doxepin and nordoxepin (the primary metabolite in humans), respectively, at the MRHD. When administered orally to pregnant rabbits (10, 30 and 60 mg/kg/day) during the period of organogenesis, fetal body weights were reduced at the highest dose in the absence of maternal toxicity. The plasma exposures (AUC) at the no-effect dose for developmental effects (30 mg/kg/day) are approximately 6 and 18 times the plasma AUCs for doxepin and nordoxepin, respectively, at the MRHD. Oral administration of doxepin (10, 30 and 100 mg/kg/day) to rats throughout the pregnancy and lactation periods resulted in decreased pup survival and transient growth delay at the highest dose. The plasma exposures (AUC) at the no-effect dose for adverse effects on pre- and postnatal development in rats (30 mg/kg/day) are approximately 3 and 2 times the plasma AUCs for doxepin and nordoxepin, respectively, at the MRHD.

### **8.2 Labor and Delivery**

The effects of doxepin hydrochloride tablets on labor and delivery in pregnant women are unknown.

### **8.3 Nursing Mothers**

Doxepin is excreted in human milk after oral administration. There has been a report of apnea and drowsiness occurring in a nursing infant whose mother was taking the higher dose of doxepin used to treat depression. Caution should be exercised when doxepin hydrochloride tablets are administered to nursing women.

### **8.4 Pediatric Use**

The safety and effectiveness of doxepin hydrochloride tablets in pediatric patients have not been evaluated.

### **8.5 Geriatric Use**

A total of 362 subjects who were  $\geq 65$  years and 86 subjects who were  $\geq 75$  years received doxepin hydrochloride tablets in controlled clinical studies. No overall differences in safety or effectiveness were observed between these subjects and younger adult subjects. Greater sensitivity of some older individuals cannot be ruled out.

Sleep-promoting drugs may cause confusion and over-sedation in the elderly. A starting dose of 3 mg is recommended in this population and evaluation prior to considering dose escalation is recommended [see *Dosage and Administration (2.2)*].

### **8.6 Use in Patients with Hepatic Impairment**

Patients with hepatic impairment may display higher doxepin concentrations than healthy individuals. Initiate doxepin hydrochloride tablets treatment with 3 mg in patients with hepatic impairment and monitor closely for adverse daytime effects [see *Clinical Pharmacology (12.5)*].

### **8.7 Use in Patients with Sleep Apnea**

Doxepin hydrochloride tablets have not been studied in patients with obstructive sleep apnea. Since hypnotics have the capacity to depress respiratory drive, precautions should be taken if doxepin hydrochloride tablets are prescribed to patients with compromised respiratory function. In patients with severe sleep apnea, doxepin hydrochloride tablets are ordinarily not recommended for use.

## **9 DRUG ABUSE AND DEPENDENCE**

### **9.1 Controlled Substance**

Doxepin is not a controlled substance.

### **9.2 Abuse**

Doxepin is not associated with abuse potential in animals or in humans. Physicians should carefully evaluate patients for history of drug abuse and follow such patients closely, observing them for signs of misuse or abuse of doxepin (e.g., incrementation of dose, drug-seeking behavior).

### **9.3 Dependence**

In a brief assessment of adverse events observed during discontinuation of doxepin following chronic administration, no symptoms indicative of a withdrawal syndrome were observed. Thus, doxepin does not appear to produce physical dependence.

## **10 OVERDOSAGE**

Doxepin is routinely administered for indications other than insomnia at doses 10- to 50-fold higher than the highest recommended dose of doxepin hydrochloride tablets.

The signs and symptoms associated with doxepin use at doses several-fold higher than the maximum recommended dose (Excessive dose) of doxepin hydrochloride tablets for the treatment of insomnia are described [see *Overdosage (10.1)*], as are signs and symptoms associated with higher multiples of the maximum recommended dose (Critical overdose) [see *Overdosage (10.2)*].

### **10.1. Signs and Symptoms of Excessive Doses**

The following adverse effects have been associated with use of doxepin at doses higher than 6 mg.

*Anticholinergic Effects:* constipation and urinary retention.

*Central Nervous System:* disorientation, hallucinations, numbness, paresthesias, extrapyramidal symptoms, seizures, tardive dyskinesia.

*Cardiovascular:* hypotension.

*Gastrointestinal:* aphthous stomatitis, indigestion.

*Endocrine:* raised libido, testicular swelling, gynecomastia in males, enlargement of breasts and galactorrhea in the female, raising or lowering of blood sugar levels, and syndrome of inappropriate

antidiuretic hormone secretion.

*Other:* tinnitus, weight gain, sweating, flushing, jaundice, alopecia, exacerbation of asthma, and hyperpyrexia (in association with chlorpromazine).

## **10.2. Signs and Symptoms of Critical Overdose**

Manifestations of doxepin critical overdose include: cardiac dysrhythmias, severe hypotension, convulsions, and CNS depression including coma. Electrocardiogram changes, particularly in QRS axis or width, are clinically significant indicators of tricyclic compound toxicity. Other signs of overdose may include, but are not limited to: confusion, disturbed concentration, transient visual hallucinations, dilated pupils, agitation, hyperactive reflexes, stupor, drowsiness, muscle rigidity, vomiting, hypothermia, hyperpyrexia.

## **10.3. Recommended Management**

As management of overdose is complex and changing, it is recommended that the physician contact a poison control center for current information on treatment. In addition, the possibility of a multiple drug ingestion should be considered.

If an overdose is suspected, an ECG should be obtained and cardiac monitoring should be initiated immediately. The patient's airway should be protected, an intravenous line should be established, and gastric decontamination should be initiated. A minimum of six hours of observation with cardiac monitoring and observation for signs of CNS or respiratory depression, hypotension, cardiac dysrhythmias and/or conduction blocks, and seizures is strongly advised. If signs of toxicity occur at any time during this period, extended monitoring is recommended. There are case reports of patients succumbing to fatal dysrhythmias late after overdose; these patients had clinical evidence of significant poisoning prior to death and most received inadequate gastrointestinal decontamination. Monitoring of plasma drug levels should not guide management of the patient.

### *Gastrointestinal Decontamination*

All patients suspected of overdose should receive gastrointestinal decontamination. This should include large volume gastric lavage followed by administration of activated charcoal. If consciousness is impaired, the airway should be secured prior to lavage. Emesis is contraindicated.

### *Cardiovascular*

A maximal limb-lead QRS duration of  $\geq 0.10$  seconds may be the best indication of the severity of an overdose. Serum alkalinization, using intravenous sodium bicarbonate should be used to maintain the serum pH in the range of 7.45 to 7.55 for patients with dysrhythmias and/or QRS widening. If the pH response is inadequate, hyperventilation may also be used. Concomitant use of hyperventilation and sodium bicarbonate should be done with extreme caution, with frequent pH monitoring. A pH  $> 7.60$  or a  $pCO_2 < 20$  mm Hg is undesirable. Dysrhythmias unresponsive to sodium bicarbonate therapy/hyperventilation may respond to lidocaine or phenytoin. Type 1A and 1C antiarrhythmics are generally contraindicated (e.g., quinidine, disopyramide, and procainamide).

In rare instances, hemoperfusion may be beneficial in acute refractory cardiovascular instability in patients with acute toxicity. However, hemodialysis, peritoneal dialysis, exchange transfusions, and forced diuresis generally have been reported as ineffective in treatment of tricyclic compound poisoning.

### *Central Nervous System*

In patients with central nervous system depression, early intubation is advised because of the potential for abrupt deterioration. Seizures should be controlled with benzodiazepines, or, if these are ineffective, other anticonvulsants (e.g., phenobarbital or phenytoin). Physostigmine is not recommended except to treat life-threatening symptoms that have been unresponsive to other therapies, and then only in

consultation with a poison control center.

### *Psychiatric Follow-up*

Since overdose often is deliberate, patients may attempt suicide by other means during the recovery phase. Psychiatric referral may be appropriate.

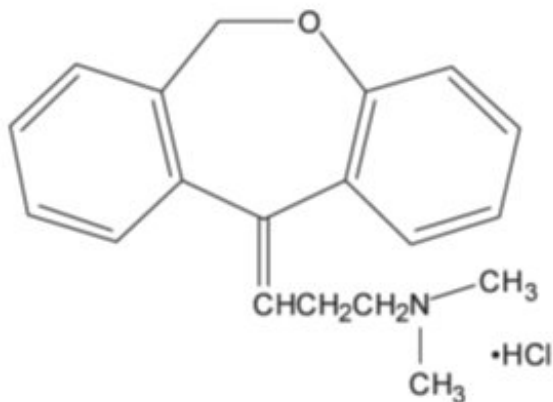
### *Pediatric Management*

The principles of management of child and adult overdoses are similar. It is strongly recommended that the physician contact the local poison control center for specific pediatric treatment.

## 11 DESCRIPTION

Doxepin hydrochloride tablets are available in 3 mg and 6 mg strength tablets for oral administration. Each tablet contains 3.39 mg or 6.78 mg doxepin hydrochloride, equivalent to 3 mg and 6 mg of doxepin, respectively.

Chemically, doxepin hydrochloride is an (E) and (Z) geometric, isomeric mixture of 1 propanamine, 3-dibenz[*b,e*]oxepin-11(6*H*)ylidene-*N,N*-dimethyl-hydrochloride. It has the following structure:



Doxepin hydrochloride is a white crystalline powder, with a slight amine-like odor, that is readily soluble in water. It has a molecular weight of 315.84 and molecular formula of  $C_{19}H_{21}NO \cdot HCl$ .

Each doxepin hydrochloride tablet includes the following inactive ingredients: microcrystalline cellulose, colloidal silicon dioxide, and magnesium stearate. The 3 mg tablet also contains FD&C Blue No.1. The 6 mg tablet also contains D&C Yellow No. 10 and FD&C Blue No. 1.

## 12 CLINICAL PHARMACOLOGY

### 12.1 Mechanism of Action

Doxepin binds with high affinity to the histamine  $H_1$  receptor ( $K_i < 1$  nM) where it functions as an antagonist. The exact mechanism by which doxepin exerts its sleep maintenance effect is unknown but is believed due to its antagonism of the  $H_1$  receptor.

### 12.2 Pharmacodynamics

#### *Cardiac Safety*

In a thorough QTc prolongation clinical study in healthy subjects, doxepin had no effect on QT intervals or other electrocardiographic parameters after multiple daily doses up to 50 mg.

## 12.3 Pharmacokinetics

### *Absorption*

The median time to peak concentrations ( $T_{max}$ ) of doxepin occurred at 3.5 hours postdose after oral administration of a 6 mg dose to fasted healthy subjects. Peak plasma concentrations ( $C_{max}$ ) of doxepin hydrochloride increased in approximately a dose-proportional manner for 3 mg and 6 mg doses. The AUC was increased by 41% and  $C_{max}$  by 15% when 6 mg doxepin hydrochloride tablets were administered with a high fat meal. Additionally, compared to the fasted state,  $T_{max}$  was delayed by approximately 3 hours. Therefore, for faster onset and to minimize the potential for next day effects, it is recommended that doxepin hydrochloride tablets not be taken within 3 hours of a meal [see *Dosage and Administration (2.3)*].

### *Distribution*

Doxepin hydrochloride is widely distributed throughout the body tissues. The mean apparent volume of distribution following a single 6 mg oral dose of doxepin hydrochloride tablets to healthy subjects was 11,930 liters. Doxepin hydrochloride is approximately 80% bound to plasma proteins.

### *Metabolism*

Following oral administration, doxepin hydrochloride is extensively metabolized by oxidation and demethylation. The primary metabolite is N-desmethyldoxepin (nordoxepin).

The primary metabolite undergoes further biotransformation to glucuronide conjugates.

*In vitro* studies have shown that CYP2C19 and CYP2D6 are the major enzymes involved in doxepin metabolism, and that CYP1A2 and CYP2C9 are involved to a lesser extent.

Doxepin appears not to have inhibitory effects on human CYP enzymes at therapeutic concentrations. The potential of doxepin to induce metabolizing enzymes is not known. Doxepin is not a Pgp substrate.

### *Excretion*

Doxepin is excreted in the urine mainly in the form of glucuronide conjugates.

Less than 3% of a doxepin dose is excreted in the urine as parent compound or nordoxepin. The apparent terminal half-life ( $t_{1/2}$ ) of doxepin was 15.3 hours and for nordoxepin was 31 hours.

## 12.4. Drug Interactions

Since doxepin is metabolized by CYP2C19 and CYP2D6, inhibitors of these CYP isozymes may increase the exposure of doxepin.

### *Cimetidine*

The effect of cimetidine, a non-specific inhibitor of CYP1A2, 2C19, 2D6, and 3A4, on doxepin hydrochloride plasma concentrations was evaluated in healthy subjects. When cimetidine 300 mg BID was co-administered with a single dose of doxepin hydrochloride tablets 6 mg, there was approximately a 2-fold increase in doxepin hydrochloride  $C_{max}$  and AUC compared to doxepin hydrochloride tablets given alone. A maximum dose of doxepin in adults and elderly should be 3 mg, when doxepin is co-administered with cimetidine.

### *Sertraline*

The effect of sertraline HCl, a selective serotonin reuptake inhibitor, on doxepin plasma concentrations was evaluated in a daytime study conducted with 24 healthy subjects. Following co-administration of doxepin 6 mg with sertraline 50 mg (at steady-state), the doxepin mean AUC and  $C_{max}$  estimates were approximately 21% and 32% higher, respectively, than those obtained following administration of doxepin alone. Psychomotor function as measured by the digit symbol substitution test and symbol copy

test performance was decreased more at 2-4 hours post dosing for the combination of sertraline and doxepin as compared to doxepin alone, but subjective measures of alertness were comparable for the two treatments.

## 12.5. Special Populations

### *Renal Impairment*

The effects of renal impairment on doxepin pharmacokinetics have not been studied. Because only small amounts of doxepin and nordoxepin are eliminated in the urine, renal impairment would not be expected to result in significantly altered doxepin concentrations.

### *Hepatic Impairment*

The effects of doxepin hydrochloride tablets in patients with hepatic impairment have not been studied. Because doxepin is extensively metabolized by hepatic enzymes, patients with hepatic impairment may display higher doxepin concentrations than healthy individuals.

### *Poor Metabolizers of CYPs*

Poor metabolizers of CYP2C19 and CYP2D6 may have higher doxepin plasma levels than normal subjects.

## 13 NONCLINICAL TOXICOLOGY

### 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

#### *Carcinogenesis*

No evidence of carcinogenic potential was observed when doxepin was administered orally to hemizygous Tg.rasH2 mice for 26 weeks at doses of 25, 50, 75 and 100 mg/kg/day.

#### *Mutagenesis*

Doxepin was negative in *in vitro* (bacterial reverse mutation, chromosomal aberration in human lymphocytes) and *in vivo* (rat micronucleus) assays.

#### *Impairment of Fertility*

When doxepin (10, 30 and 100 mg/kg/day) was orally administered to male and female rats prior to, during and after mating, adverse effects on fertility (increased copulatory interval and decreased corpora lutea, implantation, viable embryos and litter size) and sperm parameters (increased percentages of abnormal sperm and decreased sperm motility) were observed. The plasma exposures (AUC) for doxepin and nordoxepin at the no-effect dose for adverse effects on reproductive performance and fertility in rats (10 mg/kg/day) are less than those in humans at the maximum recommended human dose of 6 mg/day.

## 14 CLINICAL STUDIES

### 14.1. Controlled Clinical Trials

The efficacy of doxepin hydrochloride tablets for improving sleep maintenance was supported by six randomized, double-blind studies up to 3 months in duration that included 1,423 subjects, 18 to 93 years of age, with chronic (N = 858) or transient (N = 565) insomnia. Doxepin hydrochloride tablets were evaluated at doses of 1 mg, 3 mg, and 6 mg relative to placebo in inpatient (sleep laboratory) and outpatient settings.

The primary efficacy measures for assessment of sleep maintenance were the objective and subjective

time spent awake after sleep onset (respectively, objective Wake After Sleep Onset [WASO] and subjective WASO).

Subjects in studies of chronic insomnia were required to have at least a 3-month history of insomnia.

### *Chronic Insomnia*

#### *Adults*

A randomized, double-blind, parallel-group study was conducted in adults (N = 221) with chronic insomnia. Doxepin hydrochloride tablets 3 mg and 6 mg were compared to placebo out to 30 days.

Doxepin hydrochloride tablets 3 mg and 6 mg were superior to placebo on objective WASO. Doxepin hydrochloride tablets 3 mg were superior to placebo on subjective WASO at night 1 only. Doxepin hydrochloride tablets 6 mg were superior to placebo on subjective WASO at night 1, and nominally superior at some later time points out to Day 30.

#### *Elderly*

Elderly subjects with chronic insomnia were assessed in two parallel-group studies.

The first randomized, double-blind study assessed doxepin hydrochloride tablets 1 mg and 3 mg relative to placebo for 3 months in inpatient and outpatient settings in elderly subjects (N = 240) with chronic insomnia. Doxepin hydrochloride tablets 3 mg were superior to placebo on objective WASO.

The second randomized, double-blind study assessed doxepin hydrochloride tablets 6 mg relative to placebo for 4 weeks in an outpatient setting in elderly subjects (N = 254) with chronic insomnia. On subjective WASO, doxepin hydrochloride tablets 6 mg was superior to placebo.

### *Transient Insomnia*

Healthy adult subjects (N = 565) experiencing transient insomnia during the first night in a sleep laboratory were evaluated in a randomized, double-blind, parallel-group, single-dose study of doxepin hydrochloride tablets 6 mg relative to placebo. Doxepin hydrochloride tablets 6 mg were superior to placebo on objective WASO and subjective WASO.

### *Withdrawal Effects*

Potential withdrawal effects were assessed in a 35-day double blind study of adults with chronic insomnia who were randomized to placebo, doxepin hydrochloride tablets 3 mg, or doxepin hydrochloride tablets 6 mg. There was no indication of a withdrawal syndrome after discontinuation of doxepin hydrochloride tablets treatment (3 mg or 6 mg), as measured by the Tyrer's Symptom Checklist. Discontinuation-period emergent nausea and vomiting occurred in 5% of subjects treated with 6 mg doxepin hydrochloride tablets, versus 0% in 3 mg and placebo subjects.

### *Rebound Insomnia Effects*

Rebound insomnia, defined as a worsening in WASO compared with baseline following discontinuation of treatment, was assessed in a double-blind, 35-day study in adults with chronic insomnia. Doxepin hydrochloride tablets 3 mg and 6 mg showed no evidence of rebound insomnia.

## **16 HOW SUPPLIED/STORAGE AND HANDLING**

### **16.1. How Supplied**

Doxepin Hydrochloride Tablets are available containing 3.39 mg or 6.78 mg of doxepin hydrochloride equivalent to 3 mg or 6 mg of doxepin, respectively.

The 3 mg tablets are blue, oval shaped, unscored tablets debossed with **3** on one side of the tablet and **SP** on the other side. They are available as follows:

NDC 0378-4810-93

bottles of 30 tablets

The 6 mg tablets are green, oval shaped, unscored tablets debossed with **6** on one side of the tablet and **SP** on the other side.

NDC 0378-4811-93

bottles of 30 tablets

## **16.2. Storage and Handling**

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

**Protect from light.**

## **17 PATIENT COUNSELING INFORMATION**

Prescribers or other healthcare professionals should inform patients, their families, and their caregivers about the benefits and risks associated with treatment with hypnotics, should counsel them in appropriate use, and should instruct them to read the accompanying Medication Guide [*see Medication Guide (17.4)*].

### **17.1. Sleep-driving and Other Complex Behaviors**

There have been reports of people getting out of bed after taking a hypnotic and driving their cars while not fully awake, often with no memory of the event. If a patient experiences such an episode, it should be reported to his or her doctor immediately, since “sleep-driving” can be dangerous. This behavior is more likely to occur when a hypnotic is taken with alcohol or other central nervous system depressants [*see Warnings and Precautions (5.2, 5.4) and Drug Interactions (7.3, 7.4)*]. Other complex behaviors (e.g., preparing and eating food, making phone calls, or having sex) have been reported in patients who are not fully awake after taking a hypnotic. As with “sleep-driving”, patients usually do not remember these events.

In addition, patients should be advised to report all concomitant medications to the prescriber. Patients should be instructed to report events such as “sleep-driving” and other complex behaviors immediately to the prescriber.

### **17.2. Suicide risk and Worsening of Depression:**

Patients, their families, and their caregivers should be encouraged to be alert to worsening of depression, including suicidal thoughts and actions. Such symptoms should be reported to the patient’s prescriber or health professional.

### **17.3. Administration Instructions**

Patients should be counseled to take doxepin hydrochloride tablets within 30 minutes of bedtime and should confine their activities to those necessary to prepare for bed. Doxepin hydrochloride tablets should not be taken with or immediately after a meal [*see Dosage and Administration (2.3)*]. Advise patients NOT to take doxepin hydrochloride tablets when drinking alcohol [*see Warnings and Precautions (5.2, 5.4) and Drug Interactions (7.3)*].

### **17.4. Medication Guide**

#### **Medication Guide**

#### **Doxepin Hydrochloride Tablets**

**(dox’ e pin)**



Read this Medication Guide before you start taking doxepin hydrochloride tablets and each time you get a refill. There may be new information. This information does not take the place of talking to your healthcare provider about your medical condition or treatment.

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**What is the most important information I should know about doxepin hydrochloride tablets?**

**After taking doxepin hydrochloride tablets, you may get up out of bed while not being fully awake and do an activity that you do not know you are doing. The next morning, you may not remember that you did anything during the night.** You have a higher chance for doing these activities if you drink alcohol or take other medicines that make you sleepy with doxepin hydrochloride tablets.

Reported activities include:

- driving a car (“sleep-driving”)
- making and eating food
- talking on the phone
- having sex
- sleep-walking

***Call your healthcare provider right away if you find out that you have done any of the above activities after taking doxepin hydrochloride tablets.***

***Important:***

***1. Take doxepin hydrochloride tablets exactly as prescribed***

- Do not take more doxepin hydrochloride tablets than prescribed.
- Take doxepin hydrochloride tablets 30 minutes before bedtime. After taking doxepin hydrochloride tablets, you should only do activities needed to get ready for bed.

***2. Do not take doxepin hydrochloride tablets:***

- with alcohol
- if you take other medicines that can make you sleepy. Talk to your healthcare provider about all of your medicines. Your healthcare provider will tell you if you can take doxepin hydrochloride tablets with your other medicines
- if you cannot get a full night of sleep before you must be active again

---

**What are doxepin hydrochloride tablets?**

Doxepin hydrochloride tablets are a hypnotic (sleep) medicine that is used to treat people who have trouble staying asleep.

**Who should not take doxepin hydrochloride tablets?**

Do not take doxepin hydrochloride tablets if you:

- take a monoamine oxidase inhibitor (MAOI) medicine or have taken an MAOI in the last 14 days (2 weeks). Ask your healthcare provider if you are not sure if your medicine is an MAOI.
- have an eye problem called narrow angle glaucoma that is not being treated
- have trouble urinating
- are allergic to any of the ingredients in doxepin hydrochloride tablets. See the end of this Medication Guide for a complete list of ingredients in doxepin hydrochloride tablets.

Talk to your healthcare provider before taking this medicine if you have any of these conditions.

It is not known if doxepin hydrochloride tablets are safe and effective in children.

## **What should I tell my healthcare provider before taking doxepin hydrochloride tablets?**

### **Before you take doxepin hydrochloride tablets, tell your healthcare provider if you:**

- See **“Who should not take doxepin hydrochloride tablets?”**
- have a history of depression, mental illness, or suicidal thoughts
- have severe sleep apnea
- have kidney or liver problems
- have a history of drug or alcohol abuse or addiction
- have a history of glaucoma or urinary retention
- have any other medical conditions
- are pregnant or plan to become pregnant. It is not known if doxepin hydrochloride tablets will harm your unborn baby. Talk to your healthcare provider if you are pregnant or plan to become pregnant.
- are breast-feeding or plan to breast-feed. Doxepin hydrochloride can pass into your milk and may harm your baby. Talk to your healthcare provider about the best way to feed your baby if you take doxepin hydrochloride tablets. You should not breast-feed while taking doxepin hydrochloride tablets.

Tell your doctor about all of the medicines you take including prescription and nonprescription medicines, vitamins and herbal supplements.

Doxepin hydrochloride tablets and other medicines may affect each other causing side effects. Doxepin hydrochloride tablets may affect the way other medicines work, and other medicines may affect how doxepin hydrochloride tablets work. Especially tell your healthcare provider if you take:

- a monoamine oxidase inhibitor (MAOI). See **“Who should not take doxepin hydrochloride tablets?”**
- cimetidine (Tagamet) or other medicines that can affect certain liver enzymes
- certain allergy medicines (antihistamines) or other medicines that can make you sleepy or affect your breathing
- the diabetes medicine tolazamide

Ask your doctor or pharmacist if you are not sure if your medicine is one that is listed above.

Know the medicines you take. Keep a list of your medicines with you to show your doctor and pharmacist each time you get a new medicine.

### **How should I take doxepin hydrochloride tablets?**

- Take doxepin hydrochloride tablets exactly as your healthcare provider tells you to take them.
- Your doctor will tell you how many doxepin hydrochloride tablets to take and when to take them.
- Your doctor may change your dose if needed.
- **Take doxepin hydrochloride tablets within 30 minutes of bedtime.** After taking doxepin hydrochloride tablets, you should confine your activities to those necessary to prepare for bed.
- Do not take doxepin hydrochloride tablets within 3 hours of a meal. Doxepin hydrochloride tablets may not work as well, or may make you sleepy the next day if taken with or right after a meal.
- **Do not take doxepin hydrochloride tablets unless you are able to get a full night of sleep before you must be active again.**

- **Call your doctor if your sleep problems get worse or do not get better within 7 to 10 days.** This may mean that there is another condition causing your sleep problem.
- If you take too many doxepin hydrochloride tablets, call your doctor or get medical help right away.

### **What should I avoid while taking doxepin hydrochloride tablets?**

- You should not drink alcohol while taking doxepin hydrochloride tablets. Alcohol can increase your chances of getting serious side effects with doxepin hydrochloride tablets.
- You should not drive, operate heavy machinery, or do other dangerous activities after doxepin hydrochloride tablets.

**You may still feel drowsy the next day after taking doxepin hydrochloride tablets. Do not drive or do other dangerous activities after taking doxepin hydrochloride tablets until you feel fully awake.**

### **What are the possible side effects of doxepin hydrochloride tablets?**

Doxepin hydrochloride tablets can cause serious side effects including:

- See **“What is the most important information I should know about doxepin hydrochloride tablets?”**

The most common side effect of doxepin hydrochloride tablets is drowsiness or tiredness.

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

These are not all the possible side effects of doxepin hydrochloride tablets. For more information ask your healthcare provider or pharmacist. **Call your doctor for medical advice about side effects. You may report side effects to the FDA at 1-800-FDA-1088.**

### **How should I store doxepin hydrochloride tablets?**

- Store doxepin hydrochloride tablets between 68° and 77° F (20° to 25°C).
- Keep doxepin hydrochloride tablets in a tightly closed container, and away from light. Safely throw away medicine that is out of date or no longer needed.
- **Keep doxepin hydrochloride tablets and all medicines out of the reach of children.**

### **General Information about doxepin hydrochloride tablets**

Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. Do not use doxepin hydrochloride tablets for a condition for which they were not prescribed. Do not share doxepin hydrochloride tablets with other people, even if you think they have the same symptoms that you have. They may harm them.

This Medication Guide summarizes the most important information about doxepin hydrochloride tablets. If you would like more information, talk with your healthcare provider. You can ask your healthcare provider or pharmacist for information about doxepin hydrochloride tablets that is written for healthcare professionals.

For more information, contact Mylan at 1-877-446-3679 (1-877-4-INFO-RX).

### **What are the ingredients in doxepin hydrochloride tablets?**

**Active Ingredient:** doxepin hydrochloride

**Inactive Ingredients:** Microcrystalline cellulose, colloidal silicon dioxide, and magnesium stearate. The 3 mg tablet also contains FD&C Blue No. 1. The 6 mg tablet also contains FD&C Yellow No. 10 and FD&C Blue No. 1.

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

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

Revised: 10/2019  
SP:SILEG:R1

**PRINCIPAL DISPLAY PANEL – 30 mg**

**NDC 0378-4810-93**

**Doxepin  
Hydrochloride  
Tablets  
3 mg**

**PHARMACIST: Dispense the accompanying  
Medication Guide to each patient.**

**Rx only 30 Tablets**

Each tablet contains 3.39 mg doxepin hydrochloride, equivalent to 3 mg of doxepin.

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.**

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

**Protect from light.**

**Usual Dosage:** See accompanying prescribing information.

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

**Mylan.com**

**RSP4810H1**

The image shows a rectangular principal display panel for Doxepin Hydrochloride 3 mg Tablets. On the left side, there is a vertical barcode with the number '3' above it and '0378-4810-93 4' below it. To the right of the barcode, the text reads 'NDC 0378-4810-93' at the top, followed by 'Doxepin Hydrochloride' in large green letters, 'Tablets' in smaller black letters, and '3 mg' in a green box. Below this, there is a small image of a white oval tablet with the number '3' on it. Underneath the tablet image is a box containing the text 'PHARMACIST: Dispense the accompanying Medication Guide to each patient.' At the bottom left of the panel, it says 'Rx only' and '30 Tablets'. The Mylan logo is at the bottom center. On the right side of the panel, there is a vertical line of text that reads 'RSP4810H1'. The main body of the panel contains the following text: 'Each tablet contains 3.39 mg doxepin hydrochloride, equivalent to 3 mg of doxepin. 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. Store at 20° to 25°C (68° to 77°F). [See USP Controlled Room Temperature.] Protect from light. Usual Dosage: See accompanying prescribing information. Mylan Pharmaceuticals Inc. Morgantown, WV 26505 U.S.A.' The Mylan logo and 'Mylan.com' are at the bottom right.

**PRINCIPAL DISPLAY PANEL – 6 mg**

**NDC 0378-4811-93**

**Doxepin  
Hydrochloride  
Tablets**

6 mg

**PHARMACIST: Dispense the accompanying Medication Guide to each patient.**

**Rx only 30 Tablets**

Each tablet contains 6.78 mg doxepin hydrochloride, equivalent to 6 mg of doxepin.

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.**

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

**Protect from light.**

**Usual Dosage:** See accompanying prescribing information.

**Mylan Pharmaceuticals Inc.**

Morgantown, WV 26505 U.S.A.

**Mylan.com**

**RSP4811H1**

NDC 0378-4811-93

Marish free for serialization, Lot and Exp

**Doxepin Hydrochloride**  
Tablets  
6 mg

PHARMACIST: Dispense the accompanying Medication Guide to each patient.

**Mylan**  
Rx only 30 Tablets

Each tablet contains 6.78 mg doxepin hydrochloride, equivalent to 6 mg of doxepin. 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. Store at 20° to 25°C (68° to 77°F). [See USP Controlled Room Temperature.] Protect from light. Usual Dosage: See accompanying prescribing information. Mylan Pharmaceuticals Inc. Morgantown, WV 26505 U.S.A.

**Mylan**  
Mylan.com

RSP4811H1

## DOXEPIN HYDROCHLORIDE

doxepin hydrochloride tablet

### Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:0378-4810
Route of Administration	ORAL		

### Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
DOXEPIN HYDROCHLORIDE (UNII: 3U9A0FE9N5) (DOXEPIN - UNII:5ASJ6HUZ7D)	DOXEPIN	3 mg

### Inactive Ingredients

Ingredient Name	Strength
FD&C BLUE NO. 1 (UNII: H3R47K3TBD)	

MICROCRYSTALLINE CELLULOSE (UNII: OP1R32D61U)

SILICON DIOXIDE (UNII: ETJ7Z6XBU4)

MAGNESIUM STEARATE (UNII: 70097M6I30)

### Product Characteristics

Color	BLUE	Score	no score
Shape	OVAL	Size	10mm
Flavor		Imprint Code	3;SP
Contains			

### Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0378-4810-93	30 in 1 BOTTLE, PLASTIC; Type 0: Not a Combination Product	01/02/2020	04/30/2024

### Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA authorized generic	NDA022036	01/02/2020	04/30/2024

## DOXEPIN HYDROCHLORIDE

doxepin hydrochloride tablet

### Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:0378-4811
Route of Administration	ORAL		

### Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
DOXEPIN HYDROCHLORIDE (UNII: 3U9A0FE9N5) (DOXEPIN - UNII:5ASJ6HUZ7D)	DOXEPIN	6 mg

### Inactive Ingredients

Ingredient Name	Strength
D&C YELLOW NO. 10 (UNII: 35SW5USQ3G)	
FD&C BLUE NO. 1 (UNII: HBR47K3TBD)	
MICROCRYSTALLINE CELLULOSE (UNII: OP1R32D61U)	
SILICON DIOXIDE (UNII: ETJ7Z6XBU4)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	

### Product Characteristics

<b>Color</b>	GREEN	<b>Score</b>	no score
<b>Shape</b>	OVAL	<b>Size</b>	10 mm
<b>Flavor</b>		<b>Imprint Code</b>	6;SP
<b>Contains</b>			

### Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0378-4811-93	30 in 1 BOTTLE, PLASTIC; Type 0: Not a Combination Product	01/02/2020	04/30/2024

### Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA authorized generic	NDA022036	01/02/2020	04/30/2024

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

Revised: 10/2019

Mylan Pharmaceuticals Inc.