

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

**DOXEPIN tablets for oral administration**

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

-----**INDICATIONS AND USAGE**-----  
Doxepin 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 is ordinarily not recommended for use in this population.(8.7)

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

• The most common treatment-emergent adverse reactions, reported in ≥ 2% of patients treated with doxepin, 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 Teva Pharmaceuticals USA, Inc. at 1-888-838-2872 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.**

-----**DRUG INTERACTIONS**-----  
• MAO inhibitors: doxepin 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: 3/2019**

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<b>FULL PRESCRIBING INFORMATION: CONTENTS*</b>	8.5 Geriatric Use
<b>1 INDICATIONS AND USAGE</b>	8.6 Use in Patients with Hepatic Impairment
<b>2 DOSAGE AND ADMINISTRATION</b>	8.7 Use in Patients with Severe Sleep Apnea
2.1 Dosing in Adults	
2.2 Dosing in the Elderly	
2.3 Administration	
<b>3 DOSAGE FORMS AND STRENGTHS</b>	
<b>4 CONTRAINDICATIONS</b>	<b>9 DRUG ABUSE AND DEPENDENCE</b>
4.1 Hypersensitivity	9.1 Controlled Substance
4.2 Co-administration with Monoamine Oxidase Inhibitors (MAOIs)	9.2 Abuse
4.3 Glaucoma and Urinary Retention	9.3 Dependence
<b>5 WARNINGS AND PRECAUTIONS</b>	<b>10 OVERDOSAGE</b>
5.1 Need to Evaluate for Comorbid Diagnoses	10.1 Signs and Symptoms of Excessive Doses
5.2 Abnormal Thinking and Behavioral Changes	10.2 Signs and Symptoms of Critical Overdose
5.3 Suicide Risk and Worsening of Depression	10.3 Recommended Management
5.4 CNS Depressant Effects	<b>11 DESCRIPTION</b>
<b>6 ADVERSE REACTIONS</b>	<b>12 CLINICAL PHARMACOLOGY</b>
6.1 Clinical Trials Experience	12.1 Mechanism of Action
6.2 Studies Pertinent to Safety Concerns for Sleep-promoting Drugs	12.2 Pharmacodynamics
6.3 Other Reactions Observed During the Pre-marketing Evaluation of Doxepin	12.3 Pharmacokinetics
<b>7 DRUG INTERACTIONS</b>	12.4 Drug Interactions
7.1 Cytochrome P450 Isozymes	12.5 Special Populations
7.2 Cimetidine	<b>13 NONCLINICAL TOXICOLOGY</b>
7.3 Alcohol	13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility
7.4 CNS Depressants and Sedating Antihistamines	<b>14 CLINICAL STUDIES</b>
7.5 Tolazamide	14.1 Controlled Clinical Trials
<b>8 USE IN SPECIFIC POPULATIONS</b>	<b>15 HOW SUPPLIED/STORAGE AND HANDLING</b>
8.1 Pregnancy	15.1 How Supplied
8.2 Labor and Delivery	15.2 Storage and Handling
8.3 Nursing Mothers	<b>17 PATIENT COUNSELING INFORMATION</b>
8.4 Pediatric Use	17.1 Sleep-driving and Other Complex Behaviors
	17.2 Suicide Risk and Worsening of Depression
	17.3 Administration Instructions
	17.4 Medication Guide

\*Sections or subsections omitted from the full prescribing information are not listed

<b>FULL PRESCRIBING INFORMATION</b>
<b>1 INDICATIONS AND USAGE</b>
Doxepin 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. <i>[see Clinical Studies (14)].</i>
<b>2 DOSAGE AND ADMINISTRATION</b>
The dose of Doxepin Tablets should be individualized.
<b>2.1 Dosing in Adults</b>
The recommended dose of Doxepin Tablets for adults is 6 mg once daily. A 3 mg once daily dose may be appropriate for some patients, if clinically indicated.
<b>2.2 Dosing in the Elderly</b>
The recommended starting dose of Doxepin Tablets in elderly patients (≥ 65 years old) is 3 mg once daily. The daily dose can be increased to 6 mg, if clinically indicated.
<b>2.3 Administration</b>
Doxepin Tablets should be taken within 30 minutes of bedtime.
To minimize the potential for next day effects, Doxepin Tablets should not be taken within 3 hours of a meal <i>[see Clinical Pharmacology (12.3)].</i>
The total Doxepin Tablets dose should not exceed 6 mg per day.

**3 DOSAGE FORMS AND STRENGTHS**

Doxepin is an immediate-release, round tablet for oral administration available in strengths of 3 mg and 6 mg. The tablets are white to off-white (3 mg) or gray (6 mg) and are imprinted with ‘315’ or ‘316’, respectively, on one side and ‘’ on the other. Doxepin tablets are not scored.

<b>4 CONTRAINDICATIONS</b>
<b>4.1 Hypersensitivity</b>
Doxepin is contraindicated in individuals who have shown hypersensitivity to doxepin HCl, any of its inactive ingredients, or other dibenzoxepines.
<b>4.2 Co-administration with Monoamine Oxidase Inhibitors (MAOIs)</b>
Serious side effects and even death have been reported following the concomitant use of certain drugs with MAO inhibitors. Do not administer doxepin 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.
<b>4.3 Glaucoma and Urinary Retention</b>
Doxepin is 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 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 tablets, is an antidepressant at doses 10- to 100-fold higher than in doxepin 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 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, 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, and should be cautioned about potential impairment in the performance of such activities that may occur the day following ingestion. When taken with doxepin, 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 *[see Warnings and Precautions (5.2) and Drug Interactions (7.3)]*. Patients should be cautioned about potential additive effects of doxepin 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 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 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 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 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 ≥ 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 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 3 mg or 6 mg in which the incidence in subjects treated with doxepin was greater than the incidence in placebo-treated subjects.

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

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

The most common treatment-emergent adverse reaction in the placebo and each of the doxepin 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.

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

In a 35-day, double-blind, placebo-controlled, parallel group study of doxepin 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 1 mg and 3 mg was comparable to placebo on DRST, SCT, and VAS.

**6.3 Other Reactions Observed During the Pre-marketing Evaluation of Doxepin**  
Doxepin was 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.

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, hypacusis, 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 tonsynovitis, 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.

*Metabolic 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 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 is not an inhibitor of any CYP isozymes at therapeutically relevant concentrations. The ability of doxepin to induce CYP isozymes is not known.

**7.2 Cimetidine**  
Doxepin 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 *[see Clinical Pharmacology (12.4)]*

**7.3 Alcohol**  
When taken with doxepin, 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, 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 in pregnant women. Doxepin 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 ≥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 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 is administered to nursing women.

**8.4 Pediatric Use**  
The safety and effectiveness of doxepin in pediatric patients have not been evaluated.

**8.5 Geriatric Use**  
A total of 362 subjects who were ≥ 65 years and 86 subjects who were ≥ 75 years received doxepin 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 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 Severe Sleep Apnea**  
Doxepin has not been studied in patients with obstructive sleep apnea. Since hypnotics have the capacity to depress respiratory drive, precautions should be taken if doxepin is prescribed to patients with compromised respiratory function. In patients with severe sleep apnea, doxepin is 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.

The signs and symptoms associated with doxepin use at doses several-fold higher than the maximum recommended dose (Excessive dose) of doxepin 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, hypother

