

HIGHLIGHTS OF PRESCRIBING INFORMATION

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

XANAX (alprazolam) tablets, for oral use, CIV
Initial U.S. Approval: 1981

WARNING: RISKS FROM CONCOMITANT USE WITH OPIOIDS; ABUSE, MISUSE, AND ADDICTION; and DEPENDENCE AND WITHDRAWAL REACTIONS
See full prescribing information for complete boxed warning.

- Concomitant use of benzodiazepines and opioids may result in profound sedation, respiratory depression, coma, and death. Reserve concomitant prescribing for use in patients for whom alternative treatment options are inadequate. Limit dosages and durations to the minimum required. Follow patients for signs and symptoms of respiratory depression and sedation. (5.1, 7.1)
- The use of benzodiazepines, including XANAX, exposes users to risks of abuse, misuse, and addiction, which can lead to overdose or death. Before prescribing XANAX and throughout treatment, assess each patient's risk for abuse, misuse, and addiction. (5.2)
- Abrupt discontinuation or rapid dosage reduction of XANAX after continued use may precipitate acute withdrawal reactions, which can be life-threatening. To reduce the risk of withdrawal reactions, use a gradual taper to discontinue XANAX or reduce the dosage. (2.2, 5.3)

RECENT MAJOR CHANGES

Warnings and Precautions (5.8)

1/2023

INDICATIONS AND USAGE

XANAX is a benzodiazepine indicated for the:

- Acute treatment of generalized anxiety disorder in adults. (1)
- Treatment of panic disorder with or without agoraphobia in adults. (1)

DOSAGE AND ADMINISTRATION

- Generalized Anxiety Disorder: (2.1)
 - Recommended starting oral dosage is 0.25 mg to 0.5 mg three times daily.
 - Dosage may be increased, at intervals of every 3 to 4 days, to a maximum recommended daily dose of 4 mg, given in divided doses.
 - Use the lowest possible effective dose and frequently assess the need for continued treatment.
- Panic Disorder: Recommended starting oral dosage is 0.5 mg three times daily. The dosage may be increased at intervals of every 3 to 4 days in increments of no more than 1 mg per day. (2.2)

- When tapering, decrease dosage by no more than 0.5 mg every 3 days. Some patients may require an even slower dosage reduction. (2.3, 5.2)
- See the Full Prescribing Information for the recommended dosage in geriatric patients, patients with hepatic impairment, and with use with ritonavir. (2.4, 2.5, 2.6)

DOSAGE FORMS AND STRENGTHS

Tablets: 0.25 mg, 0.5 mg, 1 mg, and 2 mg (3)

CONTRAINDICATIONS

- Known hypersensitivity to alprazolam or other benzodiazepines. (4)
- Concomitant use with strong cytochrome P450 3A (CYP3A) inhibitors, except ritonavir. (4, 5.5, 7.1)

WARNINGS AND PRECAUTIONS

- Effects on Driving and Operating Machinery: Patients receiving XANAX should be cautioned against operating machinery or driving a motor vehicle, as well as avoiding concomitant use of alcohol and other central nervous system (CNS) depressant drugs. (5.4)
- Patients with Depression: Exercise caution in patients with signs or symptoms of depression. Prescribe the least number of tablets feasible to avoid intentional overdose. (5.6)
- Neonatal Sedation and Withdrawal Syndrome: XANAX use during pregnancy can result in neonatal sedation and/or neonatal withdrawal. (5.8, 8.1)

ADVERSE REACTIONS

The most common adverse reactions reported in clinical trials for generalized anxiety disorder and panic disorder (incidence $\geq 5\%$ and at least twice that of placebo) include: impaired coordination, hypotension, dysarthria, and increased libido. (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Viartis at 1-877-446-3679 (1-877-4-INFO-RX) or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

DRUG INTERACTIONS

- Use with Opioids: Increase the risk of respiratory depression. (7.1)
- Use with Other CNS Depressants: Produces additive CNS depressant effects. (7.1)
- Use with Digoxin: Increase the risk of digoxin toxicity. (7.1)
- Use with CYP3A Inhibitors (except ritonavir): Increase the risk of adverse reactions of alprazolam. (4, 5.5, 7.1)
- Use with CYP3A Inducers: Increase the risk of reduced efficacy of alprazolam. (7.1)

USE IN SPECIFIC POPULATIONS

Lactation: Breastfeeding not recommended. (8.2)

See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.

Revised: 1/2023

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FULL PRESCRIBING INFORMATION

WARNING: RISKS FROM CONCOMITANT USE WITH OPIOIDS; ABUSE, MISUSE, AND ADDICTION; and DEPENDENCE AND WITHDRAWAL REACTIONS

- Concomitant use of benzodiazepines and opioids may result in profound sedation, respiratory depression, coma, and death. Reserve concomitant prescribing of these drugs for patients for whom alternative treatment options are inadequate. Limit dosages and durations to the minimum required. Follow patients for signs and symptoms of respiratory depression and sedation [*see Warnings and Precautions (5.1), Drug Interactions (7.1)*].
- The use of benzodiazepines, including XANAX, exposes users to risks of abuse, misuse, and addiction, which can lead to overdose or death. Abuse and misuse of benzodiazepines commonly involve concomitant use of other medications, alcohol, and/or illicit substances, which is associated with an increased frequency of serious adverse outcomes. Before prescribing XANAX and throughout treatment, assess each patient's risk for abuse, misuse, and addiction [*see Warnings and Precautions (5.2)*].
- The continued use of benzodiazepines, including XANAX, may lead to clinically significant physical dependence. The risks of dependence and withdrawal increase with longer treatment duration and higher daily dose. Abrupt discontinuation or rapid dosage reduction of XANAX after continued use may precipitate acute withdrawal reactions, which can be life-threatening. To reduce the risk of withdrawal reactions, use a gradual taper to discontinue XANAX or reduce the dosage [*see Dosage and Administration (2.2), Warnings and Precautions (5.3)*].

1 INDICATIONS AND USAGE

XANAX is indicated for the:

- acute treatment of generalized anxiety disorder (GAD) in adults.
- treatment of panic disorder (PD), with or without agoraphobia in adults.

2 DOSAGE AND ADMINISTRATION

2.1 Dosage in Generalized Anxiety Disorder

The recommended starting oral dosage of XANAX for the acute treatment of patients with GAD is 0.25 mg to 0.5 mg administered three times daily. Depending upon the response, the dosage may be adjusted at intervals of every 3 to 4 days. The maximum recommended dosage is 4 mg daily (in divided doses).

Use the lowest possible effective dose and frequently assess the need for continued treatment [*see Warnings and Precautions (5.2)*].

2.2 Dosage in Panic Disorder

The recommended starting oral dosage of XANAX for the treatment of PD is 0.5 mg three times daily. Depending on the response, the dosage may be increased at intervals of every 3 to 4 days in increments of no more than 1 mg per day.

Controlled trials of XANAX in the treatment of panic disorder included dosages in the range of 1 mg to 10 mg daily. The mean dosage was approximately 5 mg to 6 mg daily. Occasional patients required as much as 10 mg per day.

For patients receiving doses greater than 4 mg per day, periodic reassessment and consideration of dosage reduction is advised. In a controlled postmarketing dose-response study, patients treated with doses of XANAX greater than 4 mg per day for 3 months were able to taper to 50% of their total maintenance dose without apparent loss of clinical benefit.

The necessary duration of treatment for PD in patients responding to XANAX is unknown. After a period of extended freedom from panic attacks, a carefully supervised tapered discontinuation may be attempted, but there is evidence that this may often be difficult to accomplish without recurrence of symptoms and/or the manifestation of withdrawal phenomena [see *Dosage and Administration (2.3)*].

2.3 Discontinuation or Dosage Reduction of XANAX

To reduce the risk of withdrawal reactions, use a gradual taper to discontinue XANAX or reduce the dosage. If a patient develops withdrawal reactions, consider pausing the taper or increasing the dosage to the previous tapered dosage level. Subsequently decrease the dosage more slowly [see *Warnings and Precautions (5.3)*, *Drug Abuse and Dependence (9.3)*].

Reduced the dosage by no more than 0.5 mg every 3 days. Some patients may benefit from an even more gradual discontinuation. Some patients may prove resistant to all discontinuation regimens.

In a controlled postmarketing discontinuation study of panic disorder patients which compared the recommended taper schedule with a slower taper schedule, no difference was observed between the groups in the proportion of patients who tapered to zero dose; however, the slower schedule was associated with a reduction in symptoms associated with a withdrawal syndrome.

2.4 Dosage Recommendations in Geriatric Patients

In geriatric patients, the recommended starting oral dosage of XANAX is 0.25 mg, given 2 or 3 times daily. This may be gradually increased if needed and tolerated. Geriatric patients may be especially sensitive to the effects of benzodiazepines. If adverse reactions occur at the recommended starting dosage, the dosage may be reduced [see *Use in Specific Populations (8.5)*, *Clinical Pharmacology (12.3)*].

2.5 Dosage Recommendations in Patients with Hepatic Impairment

In patients with hepatic impairment, the recommended starting oral dosage of XANAX is 0.25 mg, given 2 or 3 times daily. This may be gradually increased if needed and tolerated. If adverse reactions occur at the recommended starting dose, the dosage may be reduced [see *Use in Specific Populations (8.6)*, *Clinical Pharmacology (12.3)*].

2.6 Dosage Modifications for Drug Interactions

XANAX should be reduced to half of the recommended dosage when a patient is started on ritonavir and XANAX together, or when ritonavir administered to a patient treated with XANAX. Increase the XANAX dosage to the target dose after 10 to 14 days of dosing ritonavir and XANAX together. It is not necessary to reduce XANAX dose in patients who have been taking ritonavir for more than 10 to 14 days.

XANAX is contraindicated with concomitant use of all strong CYP3A inhibitors, except ritonavir [see *Contraindications (4)*, *Warnings and Precautions (5.5)*].

3 DOSAGE FORMS AND STRENGTHS

XANAX tablets are available as:

- 0.25 mg: white, oval, scored, imprinted “XANAX 0.25”
- 0.5 mg: peach, oval, scored, imprinted “XANAX 0.5”

- 1 mg: blue, oval, scored, imprinted “XANAX 1.0”
- 2 mg: white, oblong, multi-scored, imprinted “XANAX ” on one side and “2” on the reverse side

4 CONTRAINDICATIONS

XANAX is contraindicated in patients:

- with known hypersensitivity to alprazolam or other benzodiazepines. Angioedema has been reported [see *Adverse Reactions* (6.2)].
- taking strong cytochrome P450 3A (CYP3A) inhibitors (e.g., ketoconazole, itraconazole), except ritonavir [see *Dosage and Administration* (2.6), *Warnings and Precautions* (5.5), *Drug Interactions* (7.1)]

5 WARNINGS AND PRECAUTIONS

5.1 Risks from Concomitant Use with Opioids

Concomitant use of benzodiazepines, including XANAX, and opioids may result in profound sedation, respiratory depression, coma, and death. Because of these risks, reserve concomitant prescribing of these drugs in patients for whom alternative treatment options are inadequate.

Observational studies have demonstrated that concomitant use of opioid analgesics and benzodiazepines increases the risk of drug-related mortality compared to use of opioids alone. If a decision is made to prescribe XANAX concomitantly with opioids, prescribe the lowest effective dosages and minimum durations of concomitant use, and follow patients closely for signs and symptoms of respiratory depression and sedation. In patients already receiving an opioid analgesic, prescribe a lower initial dose of XANAX than indicated in the absence of an opioid and titrate based on clinical response. If an opioid is initiated in a patient already taking XANAX, prescribe a lower initial dose of the opioid and titrate based upon clinical response.

Advise both patients and caregivers about the risks of respiratory depression and sedation when XANAX is used with opioids. Advise patients not to drive or operate heavy machinery until the effects of concomitant use with the opioid have been determined [see *Drug Interactions* (7.1)].

5.2 Abuse, Misuse, and Addiction

The use of benzodiazepines, including XANAX, exposes users to the risks of abuse, misuse, and addiction, which can lead to overdose or death. Abuse and misuse of benzodiazepines often (but not always) involve the use of doses greater than the maximum recommended dosage and commonly involve concomitant use of other medications, alcohol, and/or illicit substances, which is associated with an increased frequency of serious adverse outcomes, including respiratory depression, overdose, or death [see *Drug Abuse and Dependence* (9.2)].

Before prescribing XANAX and throughout treatment, assess each patient’s risk for abuse, misuse, and addiction (e.g., using a standardized screening tool). Use of XANAX, particularly in patients at elevated risk, necessitates counseling about the risks and proper use of XANAX along with monitoring for signs and symptoms of abuse, misuse, and addiction. Prescribe the lowest effective dosage; avoid or minimize concomitant use of CNS depressants and other substances associated with abuse, misuse, and addiction (e.g.,

opioid analgesics, stimulants); and advise patients on the proper disposal of unused drug. If a substance use disorder is suspected, evaluate the patient and institute (or refer them for) early treatment, as appropriate.

5.3 Dependence and Withdrawal Reactions

To reduce the risk of withdrawal reactions, use a gradual taper to discontinue XANAX or reduce the dosage (a patient-specific plan should be used to taper the dose) [see *Dosage and Administration* (2.3)].

Patients at an increased risk of withdrawal adverse reactions after benzodiazepine discontinuation or rapid dosage reduction include those who take higher dosages, and those who have had longer durations of use.

Acute Withdrawal Reactions

The continued use of benzodiazepines, including XANAX, may lead to clinically significant physical dependence. Abrupt discontinuation or rapid dosage reduction of XANAX after continued use, or administration of flumazenil (a benzodiazepine antagonist) may precipitate acute withdrawal reactions, which can be life-threatening (e.g., seizures) [see *Drug Abuse and Dependence* (9.3)].

Protracted Withdrawal Syndrome

In some cases, benzodiazepine users have developed a protracted withdrawal syndrome with withdrawal symptoms lasting weeks to more than 12 months [see *Drug Abuse and Dependence* (9.3)].

Certain adverse clinical events, some life-threatening, are a direct consequence of physical dependence to XANAX. These include a spectrum of withdrawal symptoms; the most important is seizure [see *Drug Abuse and Dependence* (9.3)]. Even after relatively short-term use at doses of ≤ 4 mg/day, there is some risk of dependence. Spontaneous reporting system data suggest that the risk of dependence and its severity appear to be greater in patients treated with doses greater than 4 mg/day and for long periods (more than 12 weeks). However, in a controlled postmarketing discontinuation study of panic disorder patients who received XANAX, the duration of treatment (3 months compared to 6 months) had no effect on the ability of patients to taper to zero dose. In contrast, patients treated with doses of XANAX greater than 4 mg/day had more difficulty tapering to zero dose than those treated with less than 4 mg/day.

In a controlled clinical trial in which 63 patients were randomized to XANAX and where withdrawal symptoms were specifically sought, the following were identified as symptoms of withdrawal: heightened sensory perception, impaired concentration, dysosmia, clouded sensorium, paresthesias, muscle cramps, muscle twitch, diarrhea, blurred vision, appetite decrease, and weight loss. Other symptoms, such as anxiety and insomnia, were frequently seen during discontinuation, but it could not be determined if they were due to return of illness, rebound, or withdrawal.

Interdose Symptoms

Early morning anxiety and emergence of anxiety symptoms between doses of XANAX have been reported in patients with panic disorder taking prescribed maintenance doses. These symptoms may reflect the development of tolerance or a time interval between doses which is longer than the duration of clinical action of the administered dose. In either case, it is presumed that the prescribed dose is not sufficient to maintain plasma levels above those needed to prevent relapse, rebound, or withdrawal symptoms over the entire course of the interdosing interval.

5.4 Effects on Driving and Operating Machinery

Because of its CNS depressant effects, patients receiving XANAX should be cautioned against engaging in hazardous occupations or activities requiring complete mental alertness such as operating machinery or driving

a motor vehicle. For the same reason, patients should be cautioned about the concomitant use of alcohol and other CNS depressant drugs during treatment with XANAX [see *Drug Interactions* (7.1)].

5.5 Interaction with Drugs that Inhibit Metabolism via Cytochrome P450 3A

The initial step in alprazolam metabolism is hydroxylation catalyzed by cytochrome P450 3A (CYP3A). Drugs that inhibit this metabolic pathway may have a profound effect on the clearance of alprazolam.

Strong CYP3A Inhibitors

XANAX is contraindicated in patients receiving strong inhibitors of CYP3A (such as azole antifungal agents), except ritonavir [see *Contraindications* (4)]. Ketoconazole and itraconazole have been shown in vivo to increase plasma alprazolam concentrations 3.98 fold and 2.70 fold, respectively.

Dosage adjustment is necessary when XANAX and ritonavir are initiated concomitantly or when ritonavir is added to a stable dosage of XANAX [see *Dosage and Administration* (2.6), *Drug Interactions* (7.1)].

Drugs demonstrated to be CYP3A inhibitors on the basis of clinical studies involving alprazolam: nefazodone, fluvoxamine, and cimetidine [see *Drug Interaction* (7.1), *Clinical Pharmacology* (12.3)]. Use caution and consider dose reduction of XANAX, as appropriate, during co-administration with these drugs.

5.6 Patients with Depression

Benzodiazepines may worsen depression. Panic disorder has been associated with primary and secondary major depressive disorders and increased reports of suicide among untreated patients. Consequently, appropriate precautions (e.g., limiting the total prescription size and increased monitoring for suicidal ideation) should be considered in patients with depression.

5.7 Mania

Episodes of hypomania and mania have been reported in association with the use of XANAX in patients with depression [see *Adverse Reactions* (6.2)].

5.8 Neonatal Sedation and Withdrawal Syndrome

Use of XANAX late in pregnancy can result in sedation (respiratory depression, lethargy, hypotonia) and/or withdrawal symptoms (hyperreflexia, irritability, restlessness, tremors, inconsolable crying, and feeding difficulties) in the neonate [see *Use in Specific Populations* (8.1)]. Monitor neonates exposed to XANAX during pregnancy or labor for signs of sedation and monitor neonates exposed to XANAX during pregnancy for signs of withdrawal; manage these neonates accordingly.

5.9 Risk in Patients with Impaired Respiratory Function

There have been reports of death in patients with severe pulmonary disease shortly after the initiation of treatment with XANAX. Closely monitor patients with impaired respiratory function. If signs and symptoms of respiratory depression, hypoventilation, or apnea occur, discontinue XANAX.

6 ADVERSE REACTIONS

The following clinically significant adverse reactions are described elsewhere in the labeling:

- Risks from Concomitant Use with Opioids [see *Warnings and Precautions* (5.1)]
- Abuse, Misuse, and Addiction [see *Warnings and Precautions* (5.2)]
- Dependence and Withdrawal Reactions [see *Warnings and Precautions* (5.3)]
- Effects on Driving and Operating Machinery [see *Warnings and Precautions* (5.4)]
- Patients with Depression [see *Warnings and Precautions* (5.6)]
- Neonatal Sedation and Withdrawal Syndrome [see *Warnings and Precautions* (5.8)]
- Risks in Patients with Impaired Respiratory Function [see *Warnings and Precautions* (5.9)]

6.1 Clinical Trials Experience

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

The data in the two tables below are estimates of adverse reaction incidence among adult patients who participated in:

- 4-week placebo-controlled clinical studies with XANAX dosages up to 4 mg per day for the acute treatment of generalized anxiety disorder (Table 1)
- Short-term (up to 10 weeks) placebo-controlled clinical studies with XANAX dosages up to 10 mg per day for panic disorder, with or without agoraphobia (Table 2).

Table 1: Adverse Reactions Occurring in $\geq 1\%$ in XANAX-treated Patients and Greater than Placebo-treated Patients in Placebo-Controlled Trials for Generalized Anxiety

	XANAX n=565	Placebo n=505
Nervous system disorders		
Drowsiness	41%	22%
Light-headedness	21%	19%
Dizziness	2%	1%
Akathisia	2%	1%
Gastrointestinal disorders		
Dry mouth	15%	13%
Increased salivation	4%	2%
Cardiovascular disorders		
Hypotension	5%	2%
Skin and subcutaneous tissue disorders		
Dermatitis/allergy	4%	3%

In addition to the adverse reactions (i.e., greater than 1%) enumerated in the table above for patients with generalized anxiety disorder, the following adverse reactions have been reported in association with the use of benzodiazepines: dystonia, irritability, concentration difficulties, anorexia, transient amnesia or memory impairment, loss of coordination, fatigue, seizures, sedation, slurred speech, jaundice, musculoskeletal weakness, pruritus, diplopia, dysarthria, changes in libido, menstrual irregularities, incontinence and urinary retention.

Table 2: Adverse Reactions Occurring in $\geq 1\%$ in XANAX-treated Patients and Greater than Placebo-treated Patients in Placebo-Controlled Trials (Up to 10 Weeks) for Panic Disorder

	XANAX n=1388	Placebo n=1231
Drowsiness	77%	43%
Fatigue and Tiredness	49%	42%
Impaired Coordination	40%	18%
Irritability	33%	30%
Memory Impairment	33%	22%
Cognitive Disorder	29%	21%
Decreased Libido	14%	8%
Dysarthria	23%	6%
Confusional state	10%	8%
Increased libido	8%	4%
Change in libido (not specified)	7%	6%
Disinhibition	3%	2%
Talkativeness	2%	1%
Derealization	2%	1%
Gastrointestinal disorders		
Constipation	26%	15%
Increased salivation	6%	4%
Skin and subcutaneous tissue disorders		
Rash	11%	8%
Other		
Increased appetite	33%	23%
Decreased appetite	28%	24%
Weight gain	27%	18%
Weight loss	23%	17%
Micturition difficulties	12%	9%
Menstrual disorders	11%	9%
Sexual dysfunction	7%	4%
Incontinence	2%	1%

In addition to the reactions (i.e., greater than 1%) enumerated in the table above for patients with panic disorder, the following adverse reactions have been reported in association with the use of XANAX: seizures, hallucinations, depersonalization, taste alterations, diplopia, elevated bilirubin, elevated hepatic enzymes, and jaundice.

Adverse Reactions Reported as Reasons for Discontinuation in Treatment of Panic Disorder in Placebo-Controlled Trials

In a larger database comprised of both controlled and uncontrolled studies in which 641 patients received XANAX, discontinuation-emergent symptoms which occurred at a rate of over 5% in patients treated with XANAX and at a greater rate than the placebo-treated group are shown in Table 3.

Table 3: Discontinuation-Emergent Symptom Incidence Reported in $\geq 5\%$ of XANAX-treated Patients and > Placebo-treated Patients

	XANAX-treated Patients n=641
Nervous system disorders	
Insomnia	29.5%
Light-headedness	19.3%
Abnormal involuntary movement	17.3%
Headache	17.0%
Muscular twitching	6.9%
Impaired coordination	6.6%
Muscle tone disorders	5.9%
Weakness	5.8%
Psychiatric disorders	
Anxiety	19.2%
Fatigue and Tiredness	18.4%
Irritability	10.5%
Cognitive disorder	10.3%
Memory impairment	5.5%
Depression	5.1%
Confusional state	5.0%
Gastrointestinal disorders	
Nausea/Vomiting	16.5%
Diarrhea	13.6%
Decreased salivation	10.6%
Metabolism and nutrition disorders	
Weight loss	13.3%
Decreased appetite	12.8%
Dermatological disorders	
Sweating	14.4%
Cardiovascular disorders	
Tachycardia	12.2%
Special Senses	
Blurred vision	10.0%

n=number of patients.

There have also been reports of withdrawal seizures upon rapid decrease or abrupt discontinuation of XANAX [see *Warning and Precautions (5.2) and Drug Abuse and Dependence (9.3)*].

Paradoxical reactions such as stimulation, increased muscle spasticity, sleep disturbances, hallucinations, and other adverse behavioral effects such as agitation, rage, irritability, and aggressive or hostile behavior have been reported rarely. In many of the spontaneous case reports of adverse behavioral effects, patients were receiving other CNS drugs concomitantly and/or were described as having underlying psychiatric conditions. Should any of the above events occur, alprazolam should be discontinued. Isolated published reports involving small numbers of patients have suggested that patients who have borderline personality disorder, a prior history of violent or aggressive behavior, or alcohol or substance abuse may be at risk for such events. Instances of irritability, hostility, and intrusive thoughts have been reported during discontinuation of alprazolam in patients with posttraumatic stress disorder.

6.2 Postmarketing Experience

The following adverse reactions have been identified during postapproval use of XANAX. 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.

Endocrine disorders: Hyperprolactinemia

General disorders and administration site conditions: Edema peripheral

Hepatobiliary disorders: Hepatitis, hepatic failure

Investigations: Liver enzyme elevations

Psychiatric disorders: Hypomania, mania

Reproductive system and breast disorders: Gynecomastia, galactorrhea

Skin and subcutaneous tissue disorders: Photosensitivity reaction, angioedema, Stevens-Johnson syndrome

7 DRUG INTERACTIONS

7.1 Drugs Having Clinically Important Interactions with XANAX

Table 4 includes clinically significant drug interactions with XANAX [see *Clinical Pharmacology (12.3)*].

Table 4: Clinically Significant Drug Interactions with XANAX

Opioids	
Clinical implication	The concomitant use of benzodiazepines and opioids increases the risk of respiratory depression because of actions at different receptor sites in the CNS that control respiration. Benzodiazepines interact at gamma-aminobutyric acid(GABA _A) sites and opioids interact primarily at mu receptors. When benzodiazepines and opioids are combined, the potential for benzodiazepines to significantly worsen opioid-related respiratory depression exists.
Prevention or management	Limit dosage and duration of concomitant use of XANAX and opioids, and monitor patients closely for respiratory depression and sedation [see <i>Warnings and Precautions (5.1)</i>].
Examples	Morphine, buprenorphine, hydromorphone, oxymorphone, oxycodone, fentanyl, methadone, alfentanil, butorphenol, codeine, dihydrocodeine, meperidine, pentazocine, remifentanyl, sufentanyl, tapentadol, tramadol.
CNS Depressants	
Clinical implication	The benzodiazepines, including alprazolam, produce additive CNS depressant effects when coadministered with other CNS depressants.
Prevention or management	Limit dosage and duration of XANAX during concomitant use with CNS depressants [see <i>Warnings and Precautions (5.3)</i>].
Examples	Psychotropic medications, anticonvulsants, antihistaminics, ethanol, and other drugs which themselves produce CNS depression.
Strong Inhibitors of CYP3A (except ritonavir)	
Clinical implication	Concomitant use of XANAX with strong CYP3A inhibitors has a profound effect on the clearance of alprazolam, resulting in increased concentrations of alprazolam and increased risk of adverse reactions [see <i>Clinical Pharmacology (12.3)</i>].

Prevention or management	Concomitant use of XANAX with a strong CYP3A4 inhibitor (except ritonavir) is contraindicated [see <i>Contraindications (4)</i> , <i>Warnings and Precautions (5.5)</i>].
Examples	Ketoconazole, itraconazole, clarithromycin
Moderate or Weak Inhibitors of CYP3A	
Clinical implication	Concomitant use of XANAX with CYP3A inhibitors may increase the concentrations of XANAX, resulting in increased risk of adverse reactions of alprazolam [see <i>Clinical Pharmacology (12.3)</i>].
Prevention or management	Avoid use and consider appropriate dose reduction when XANAX is coadministered with a moderate or weak CYP3A inhibitor [see <i>Warnings and Precautions (5.5)</i>].
Examples	Nefazodone, fluvoxamine, cimetidine, erythromycin
CYP3A Inducers	
Clinical implication	Concomitant use of CYP3A inducers can increase alprazolam metabolism and therefore can decrease plasma levels of alprazolam [see <i>Clinical Pharmacology (12.3)</i>].
Prevention or management	Caution is recommended during coadministration with XANAX.
Examples	Carbamazepine, phenytoin
Ritonavir	
Clinical implication	Interactions involving ritonavir and alprazolam are complex and time dependent. Short term administration of ritonavir increased alprazolam exposure due to CYP3A4 inhibition. Following long term treatment of ritonavir (>10 to 14 days), CYP3A4 induction offsets this inhibition. Alprazolam exposure was not meaningfully affected in the presence of ritonavir.
Prevention or management	Reduce XANAX dosage when ritonavir and XANAX are initiated concomitantly, or when ritonavir is added to a regimen where XANAX is stabilized. Increase XANAX dosage to the target dosage after 10 to 14 days of dosing ritonavir and XANAX concomitantly. No dosage adjustment of XANAX is necessary in patients receiving ritonavir for more than 10 to 14 days [see <i>Dosage and Administration (2.6)</i>]. Concomitant use of XANAX with a strong CYP3A inhibitor, except ritonavir, is contraindicated [see <i>Contraindications (4)</i>, <i>Warnings and Precautions (5.5)</i>].
Digoxin	
Clinical implication	Increased digoxin concentrations have been reported when alprazolam was given, especially in geriatric patients (>65 years of age).
Prevention or management	In patients on digoxin therapy, measure serum digoxin concentrations before initiating XANAX. Continue monitoring digoxin serum concentration and toxicity frequently. Reduce the digoxin dose if necessary.

7.2 Drug/Laboratory Test Interactions

Although interactions between benzodiazepines and commonly employed clinical laboratory tests have occasionally been reported, there is no consistent pattern for a specific drug or specific test.

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 psychiatric medications, including XANAX, during pregnancy. Healthcare providers are encouraged to register patients by calling the National Pregnancy Registry for Psychiatric Medications at 1-866-961-2388 or visiting online at <https://womensmentalhealth.org/research/pregnancyregistry/>.

Risk Summary

Neonates born to mothers using benzodiazepines late in pregnancy have been reported to experience symptoms of sedation and/or neonatal withdrawal [*see Warnings and Precautions (5.8) and Clinical Considerations*]. Available data from published observational studies of pregnant women exposed to benzodiazepines do not report a clear association with benzodiazepines and major birth defects (*see Data*).

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

Clinical Considerations

Fetal/Neonatal adverse reactions

Benzodiazepines cross the placenta and may produce respiratory depression, hypotonia, and sedation in neonates. Monitor neonates exposed to XANAX during pregnancy or labor for signs of sedation, respiratory depression, hypotonia, and feeding problems. Monitor neonates exposed to XANAX during pregnancy for signs of withdrawal. Manage these neonates accordingly [*see Warnings and Precautions (5.8)*].

Data

Human Data

Published data from observational studies on the use of benzodiazepines during pregnancy do not report a clear association with benzodiazepines and major birth defects. Although early studies reported an increased risk of congenital malformations with diazepam and chlordiazepoxide, there was no consistent pattern noted. In addition, the majority of recent case-control and cohort studies of benzodiazepine use during pregnancy, which were adjusted for confounding exposures to alcohol, tobacco, and other medications, have not confirmed these findings.

8.2 Lactation

Risk Summary

Limited data from published literature reports the presence of alprazolam in human breast milk. There are reports of sedation, poor feeding and poor weight gain in infants exposed to benzodiazepines through breast milk. The effects of alprazolam on lactation are unknown.

Because of the potential for serious adverse reactions, including sedation and withdrawal symptoms in breastfed infants, advise patients that breastfeeding is not recommended during treatment with XANAX.

8.4 Pediatric Use

Safety and effectiveness of XANAX have not been established in pediatric patients.

8.5 Geriatric Use

XANAX-treated geriatric patients had higher plasma concentrations of alprazolam (due to reduced clearance) compared to younger adult patients receiving the same doses. Therefore, dosage reduction of XANAX is recommended in geriatric patients [see *Dosage and Administration (2.4) and Clinical Pharmacology (12.3)*].

8.6 Hepatic Impairment

Patients with alcoholic liver disease exhibit a longer elimination half-life (19.7 hours), compared to healthy subjects (11.4 hours). This may be caused by decreased clearance of alprazolam in patients with alcoholic liver disease. Dosage reduction of XANAX is recommended in patients with hepatic impairment [see *Dosage and Administration (2.4), Clinical Pharmacology (12.3)*].

9 DRUG ABUSE AND DEPENDENCE

9.1 Controlled Substance

XANAX contains alprazolam, which is a Schedule IV controlled substance.

9.2 Abuse

XANAX is a benzodiazepine and a CNS depressant with a potential for abuse and addiction. Abuse is the intentional, non-therapeutic use of a drug, even once, for its desirable psychological or physiological effects. Misuse is the intentional use, for therapeutic purposes, of a drug by an individual in a way other than prescribed by a health care provider or for whom it was not prescribed. Drug addiction is a cluster of behavioral, cognitive, and physiological phenomena that may include a strong desire to take the drug, difficulties in controlling drug use (e.g., continuing drug use despite harmful consequences, giving a higher priority to drug use than other activities and obligations), and possible tolerance or physical dependence. Even taking benzodiazepines as prescribed may put patients at risk for abuse and misuse of their medication. Abuse and misuse of benzodiazepines may lead to addiction.

Abuse and misuse of benzodiazepines often (but not always) involve the use of doses greater than the maximum recommended dosage and commonly involve concomitant use of other medications, alcohol, and/or illicit substances, which is associated with an increased frequency of serious adverse outcomes, including respiratory depression, overdose, or death. Benzodiazepines are often sought by individuals who abuse drugs and other substances, and by individuals with addictive disorders [see *Warnings and Precautions (5.2)*].

The following adverse reactions have occurred with benzodiazepine abuse and/or misuse: abdominal pain, amnesia, anorexia, anxiety, aggression, ataxia, blurred vision, confusion, depression, disinhibition, disorientation, dizziness, euphoria, impaired concentration and memory, indigestion, irritability, muscle pain, slurred speech, tremors, and vertigo.

The following severe adverse reactions have occurred with benzodiazepine abuse and/or misuse: delirium, paranoia, suicidal ideation and behavior, seizures, coma, breathing difficulty, and death. Death is more often associated with polysubstance use (especially benzodiazepines with other CNS depressants such as opioids and alcohol).

9.3 Dependence

XANAX may produce physical dependence from continued therapy. Physical dependence is a state that develops as a result of physiological adaptation in response to repeated drug use, manifested by withdrawal signs and symptoms after abrupt discontinuation or a significant dose reduction of a drug. Abrupt discontinuation or rapid dosage reduction of benzodiazepines or administration of flumazenil, a benzodiazepine antagonist, may precipitate acute withdrawal reactions, including seizures, which can be life-threatening. Patients at an increased risk of withdrawal adverse reactions after benzodiazepine discontinuation or rapid

dosage reduction include those who take higher dosages (i.e., higher and/or more frequent doses) and those who have had longer durations of use [see *Warnings and Precautions* (5.3)].

To reduce the risk of withdrawal reactions, use a gradual taper to discontinue XANAX or reduce the dosage [see *Dosage and Administration* (2.3), *Warnings and Precautions* (5.3)].

Acute Withdrawal Signs and Symptoms

Acute withdrawal signs and symptoms associated with benzodiazepines have included abnormal involuntary movements, anxiety, blurred vision, depersonalization, depression, derealization, dizziness, fatigue, gastrointestinal adverse reactions (e.g., nausea, vomiting, diarrhea, weight loss, decreased appetite), headache, hyperacusis, hypertension, irritability, insomnia, memory impairment, muscle pain and stiffness, panic attacks, photophobia, restlessness, tachycardia, and tremor. More severe acute withdrawal signs and symptoms, including life-threatening reactions, have included catatonia, convulsions, delirium tremens, depression, hallucinations, mania, psychosis, seizures, and suicidality.

Protracted Withdrawal Syndrome

Protracted withdrawal syndrome associated with benzodiazepines is characterized by anxiety, cognitive impairment, depression, insomnia, formication, motor symptoms (e.g., weakness, tremor, muscle twitches), paresthesia, and tinnitus that persists beyond 4 to 6 weeks after initial benzodiazepine withdrawal. Protracted withdrawal symptoms may last weeks to more than 12 months. As a result, there may be difficulty in differentiating withdrawal symptoms from potential re-emergence or continuation of symptoms for which the benzodiazepine was being used.

Tolerance

Tolerance to XANAX may develop from continued therapy. Tolerance is a physiological state characterized by a reduced response to a drug after repeated administration (i.e., a higher dose of a drug is required to produce the same effect that was once obtained at a lower dose). Tolerance to the therapeutic effect of XANAX may develop; however, little tolerance develops to the amnestic reactions and other cognitive impairments caused by benzodiazepines.

10 OVERDOSAGE

Overdosage of benzodiazepines is characterized by central nervous system depression ranging from drowsiness to coma. In mild to moderate cases, symptoms can include drowsiness, confusion, dysarthria, lethargy, hypnotic state, diminished reflexes, ataxia, and hypotonia. Rarely, paradoxical or disinhibitory reactions (including agitation, irritability, impulsivity, violent behavior, confusion, restlessness, excitement, and talkativeness) may occur. In severe overdosage cases, patients may develop respiratory depression and coma. Overdosage of benzodiazepines in combination with other CNS depressants (including alcohol and opioids) may be fatal [see *Warnings and Precautions* (5.2)]. Markedly abnormal (lowered or elevated) blood pressure, heart rate, or respiratory rate raise the concern that additional drugs and/or alcohol are involved in the overdosage.

In managing benzodiazepine overdosage, employ general supportive measures, including intravenous fluids and airway management. Flumazenil, a specific benzodiazepine receptor antagonist indicated for the complete or partial reversal of the sedative effects of benzodiazepines in the management of benzodiazepine overdosage, can lead to withdrawal and adverse reactions, including seizures, particularly in the context of mixed overdosage with drugs that increase seizure risk (e.g., tricyclic and tetracyclic antidepressants) and in patients with long-term benzodiazepine use and physical dependency. The risk of withdrawal seizures with flumazenil use may be increased in patients with epilepsy. Flumazenil is contraindicated in patients who have received a benzodiazepine for control of a potentially life-threatening condition (e.g., status epilepticus). If the decision is

made to use flumazenil, it should be used as an adjunct to, not as a substitute for, supportive management of benzodiazepine overdose. See the flumazenil injection Prescribing Information.

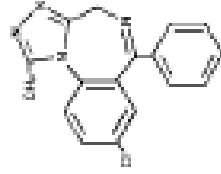
Consider contacting the Poison Help Line (1-800-222-1222), or a medical toxicologist for additional overdose management recommendations.

11 DESCRIPTION

XANAX contains alprazolam which is a triazolo analog of the 1,4 benzodiazepine class of central nervous system-active compounds.

The chemical name of alprazolam is 8-Chloro-1-methyl-6-phenyl-4H-s-triazolo [4,3- α] [1,4] benzodiazepine.

The structural formula is:



Alprazolam is a white crystalline powder, which is soluble in methanol or ethanol but which has no appreciable solubility in water at physiological pH.

Each XANAX tablet, for oral administration, contains 0.25 mg, 0.5 mg, 1 mg, or 2 mg of alprazolam.

Inactive ingredients: cellulose, corn starch, docusate sodium, lactose, magnesium stearate, silicon dioxide and sodium benzoate. In addition, the 0.5 mg tablet contains FD&C Yellow No. 6 and the 1 mg tablet contains FD&C Blue No. 2.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Alprazolam is a 1,4 benzodiazepine. Alprazolam exerts its effect for the acute treatment of generalized anxiety disorder and panic disorder through binding to the benzodiazepine site of gamma-aminobutyric acid-A (GABA_A) receptors in the brain and enhances GABA-mediated synaptic inhibition.

12.3 Pharmacokinetics

Plasma levels of alprazolam increase proportionally to the dose over the range of 0.5 to 3.0 mg.

Absorption

Following oral administration, peak plasma concentration of alprazolam ($C_{\max}$) occurs in 1 to 2 hours post dose.

Distribution

Alprazolam is 80% bound to human serum protein, and albumin accounts for the majority of the binding.

Elimination

The mean plasma elimination half-life ($T_{1/2}$) of alprazolam is approximately 11.2 hours (range: 6.3 to 26.9 hours) in healthy adults.

Metabolism

Alprazolam is extensively metabolized in humans, primarily by cytochrome P450 3A4 (CYP3A4), to 2 major active metabolites in the plasma: 4-hydroxyalprazolam and α -hydroxyalprazolam. The plasma circulation levels of the two active metabolites are less than 4% of the parent. The reported relative potencies in benzodiazepine receptor binding experiments and in animal models of induced seizure inhibition are 0.20 and 0.66, respectively, for 4-hydroxyalprazolam and α -hydroxyalprazolam. The low concentrations and low potencies of 4-hydroxyalprazolam and α -hydroxyalprazolam indicate that they unlikely contribute much to the effects of alprazolam. A benzophenone derived from alprazolam is also found in humans. Their half-lives appear to be similar to that of alprazolam.

Excretion

Alprazolam and its metabolites are excreted primarily in the urine.

Specific Populations

Geriatric Patients

The mean $T_{1/2}$ of alprazolam was 16.3 hours (range: 9.0 to 26.9 hours) in healthy elderly subjects compared to 11.0 hours (range: 6.3 to 15.8 hours, n=16) in healthy younger adult subjects.

Obese Patients

The mean $T_{1/2}$ of alprazolam was 21.8 hours (range: 9.9 to 40.4 hours) in a group of obese subjects.

Patients with Hepatic Impairment

The mean $T_{1/2}$ of alprazolam was 19.7 hours (range: 5.8 to 65.3 hours) in patients with alcoholic liver disease.

Racial or Ethnic Groups

Maximal concentrations and $T_{1/2}$ of alprazolam are approximately 15% and 25% higher in Asians compared to Caucasians.

Smoking

Alprazolam concentrations may be reduced by up to 50% in smokers compared to non-smokers.

Drug Interaction Studies

In Vivo Studies

Most of the interactions that have been documented with alprazolam are with drugs that modulate CYP3A4 activity.

Compounds that are inhibitors or inducers of CYP3A would be expected to increase or decrease plasma alprazolam concentrations, respectively. Drug products that have been studied in vivo, along with their effect on increasing alprazolam AUC, are as follows: ketoconazole, 3.98 fold; itraconazole, 2.66 fold; nefazodone, 1.98 fold; fluvoxamine, 1.96 fold; and erythromycin, 1.61 fold [see *Contraindications (4)*, *Warnings and Precautions (5.5)*, *Drug Interactions (7.2)*]. Other studied drugs include:

Cimetidine: Coadministration of cimetidine increased the maximum plasma concentration of alprazolam by 82%, decreased clearance by 42%, and increased $T_{1/2}$ by 16%.

Fluoxetine: Coadministration of fluoxetine with alprazolam increased the maximum plasma concentration of alprazolam by 46%, decreased clearance by 21%, increased $T_{1/2}$ by 17%, and decreased measured psychomotor performance.

Oral Contraceptives: Coadministration of oral contraceptives increased the maximum plasma concentration of alprazolam by 18%, decreased clearance by 22%, and increased $T_{1/2}$ by 29%.

Carbamazepine: The oral clearance of alprazolam (given in a 0.8 mg single dose) was increased from 0.90 ± 0.21 mL/min/kg to 2.13 ± 0.54 mL/min/kg and the elimination $T_{1/2}$ was shortened (from 17.1 ± 4.9 to 7.7 ± 1.7 hour) following administration of 300 mg per day carbamazepine for 10 days [see *Drug Interactions* (7.2)]. However, the carbamazepine dose used in this study was fairly low compared to the recommended doses (1000-1200 mg per day); the effect at usual carbamazepine doses is unknown.

Ritonavir: Interactions involving HIV protease inhibitors (e.g., ritonavir) and alprazolam are complex and time dependent. Short-term low doses of ritonavir (4 doses of 200 mg) increased mean AUC of alprazolam by about 2.5-fold, and did not significantly affect C_{max} of alprazolam. The elimination $T_{1/2}$ was prolonged (30 hours versus 13 hours). However, upon extended exposure to ritonavir (500 mg, twice daily for 10 days), CYP3A induction offset this inhibition. Alprazolam AUC and C_{max} was reduced by 12% and 16%, respectively, in the presence of ritonavir. The elimination $T_{1/2}$ of alprazolam was not significantly changed [see *Warnings and Precautions* (5.5)].

Sertraline: A single dose of alprazolam 1 mg and steady state dose of sertraline (50 mg to 150 mg per day) did not reveal any clinically significant changes in the pharmacokinetics of alprazolam.

Imipramine and Desipramine: The steady state plasma concentrations of imipramine and desipramine have been reported to be increased an average of 31% and 20%, respectively, by the concomitant administration of XANAX in doses up to 4 mg per day.

Warfarin: Alprazolam did not affect the prothrombin or plasma warfarin levels in male volunteers administered sodium warfarin orally.

In Vitro Studies

Data from in vitro studies of alprazolam suggest a possible drug interaction of alprazolam with paroxetine. The ability of alprazolam to induce human hepatic enzyme systems has not yet been determined.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenesis

No evidence of carcinogenic potential was observed in rats or mice administered alprazolam for 2-years at doses up to 30 and 10 mg/kg day respectively. These doses are 29 times and 4.8 times the maximum recommended human dose of 10 mg/day based on mg/m^2 body surface area, respectively.

Mutagenesis

Alprazolam was negative in the in vitro Ames bacterial reverse mutation assay and DNA Damage/Alkaline Elution Assay and in vivo rat micronucleus genetic toxicology assays.

Impairment of Fertility

Alprazolam produced no impairment of fertility in rats at doses up to 5 mg/kg per day, which is approximately 5 times the maximum recommended human dose of 10 mg per day based on mg/m^2 body surface area.

13.2 Animal Toxicology and/or Pharmacology

When rats were treated with alprazolam at oral doses of 3 mg, 10 mg, and 30 mg/kg day (3 to 29 times the maximum recommended human dose based on mg/m^2 body surface area) for 2 years, a tendency for a dose

related increase in the number of cataracts was observed in females and a tendency for a dose related increase in corneal vascularization was observed in males. These lesions did not appear until after 11 months of treatment.

14 CLINICAL STUDIES

14.1 Generalized Anxiety Disorder

XANAX was compared to placebo in double-blind clinical studies (doses up to 4 mg per day) in patients with a diagnosis of anxiety or anxiety with associated depressive symptomatology. XANAX was significantly better than placebo at each of the evaluation periods of these 4-week studies as judged by the following psychometric instruments: Physician's Global Impressions, Hamilton Anxiety Rating Scale, Target Symptoms, Patient's Global Impressions, and Self-Rating Symptom Scale.

14.2 Panic Disorder

The effectiveness of XANAX in the treatment of panic disorder was studied in 3 short-term, placebo-controlled studies (up to 10 weeks) in patients with diagnoses closely corresponding to DSM-III-R criteria for panic disorder.

The average dose of XANAX was 5 mg to 6 mg per day in 2 of the studies, and the doses of XANAX were fixed at 2 mg and 6 mg per day in the third study. In all 3 studies, XANAX was superior to placebo on a variable defined as "the number of patients with zero panic attacks" (range, 37% to 83% met this criterion), as well as on a global improvement score. In 2 of the 3 studies, XANAX was superior to placebo on a variable defined as "change from baseline on the number of panic attacks per week" (range, 3.3 to 5.2), and also on a phobia rating scale. A subgroup of patients who improved on XANAX during short-term treatment in 1 of these trials was continued on an open basis up to 8 months, without apparent loss of benefit.

16 HOW SUPPLIED/STORAGE AND HANDLING

XANAX is supplied in the following strengths and package configurations:

XANAX Tablets			
Package Configuration	Tablet Strength (mg)	NDC	Print
Bottles of 100 Reverse Numbered Unit dose (100) Bottles of 500 Bottles of 1000	0.25 mg	NDC 0009-0029-01 NDC 0009-0029-46 NDC 0009-0029-02 NDC 0009-0029-14	white, oval, scored, imprinted "XANAX 0.25"
Bottles of 100 Reverse Numbered Unit dose (100) Bottles of 500 Bottles of 1000	0.5 mg	NDC 0009-0055-01 NDC 0009-0055-46 NDC 0009-0055-03 NDC 0009-0055-15	peach, oval, scored, imprinted "XANAX 0.5"
Bottles of 100 Bottles of 500 Bottles of 1000	1 mg	NDC 0009-0090-01 NDC 0009-0090-04 NDC 0009-0090-13	blue, oval, scored, imprinted "XANAX 1.0"
Bottles of 100 Bottles of 500	2 mg	NDC 0009-0094-01 NDC 0009-0094-03	white, oblong, multi-scored, imprinted "XANAX" on one side and "2" on the reverse side

Store at controlled room temperature 20° to 25°C (68° to 77°F) [see USP Controlled Room Temperature].

17 PATIENT COUNSELING INFORMATION

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

Risks from Concomitant Use with Opioids

Advise both patients and caregivers about the risks of potentially fatal respiratory depression and sedation when XANAX is used with opioids and not to use such drugs concomitantly unless supervised by a healthcare provider. Advise patients not to drive or operate heavy machinery until the effects of concomitant use with the opioid have been determined [see *Warnings and Precautions* (5.1), *Drug Interactions* (7.1)].

Abuse, Misuse, and Addiction

Inform patients that the use of XANAX, even at recommended dosages, exposes users to risks of abuse, misuse, and addiction, which can lead to overdose and death, especially when used in combination with other medications (e.g., opioid analgesics), alcohol, and/or illicit substances. Inform patients about the signs and symptoms of benzodiazepine abuse, misuse, and addiction; to seek medical help if they develop these signs and/or symptoms; and on the proper disposal of unused drug [see *Warnings and Precautions* (5.2), *Drug Abuse and Dependence* (9.2)].

Withdrawal Reactions

Inform patients that the continued use of XANAX may lead to clinically significant physical dependence and that abrupt discontinuation or rapid dosage reduction of XANAX may precipitate acute withdrawal reactions, which can be life-threatening. Inform patients that in some cases, patients taking benzodiazepines have developed a protracted withdrawal syndrome with withdrawal symptoms lasting weeks to more than 12 months. Instruct patients that discontinuation or dosage reduction of XANAX may require a slow taper [see *Warnings and Precautions* (5.3), *Drug Abuse and Dependence* (9.3)].

Effects on Driving and Operating Machinery

Advise patients not to drive a motor vehicle or operate heavy machinery while taking XANAX due to its CNS depressant effects. Also advise patients to avoid use of alcohol or other CNS depressants while taking XANAX [see *Warnings and Precautions* (5.3)].

Patients with Depression

Advise patients, their families, and caregivers to look for signs of suicidality or worsening depression, and to inform the patient's healthcare provider immediately [see *Warnings and Precautions* (5.6)].

Concomitant Medications

Advise patients to inform their healthcare provider of all medicines they take, including prescription and nonprescription medications, vitamins and herbal supplements [see *Drug Interactions* (7)].

Pregnancy

Advise pregnant females that use of XANAX late in pregnancy can result in sedation (respiratory depression, lethargy, hypotonia) and/or withdrawal symptoms (hyperreflexia, irritability, restlessness, tremors, inconsolable crying, and feeding difficulties) in newborns [see *Warnings and Precautions* (5.8), *Use in Specific Populations* (8.1)]. Instruct patients to inform their healthcare provider if they are pregnant.

Advise patients that there is a pregnancy exposure registry that monitors pregnancy outcomes in women exposed to XANAX during pregnancy [see *Use in Specific Populations* (8.1)].

Lactation

Advise patients that breastfeeding is not recommended during treatment with XANAX [*see Use in Specific Populations (8.2)*].

Distributed by:
Viatris Specialty LLC
Morgantown, WV 26505 U.S.A.

UPJ: XNXT:RX1

MEDICATION GUIDE
XANAX (ZAN-aks)
(alprazolam) tablets, C-IV

What is the most important information I should know about XANAX?

- **XANAX is a benzodiazepine medicine. Taking benzodiazepines with opioid medicines, alcohol, or other central nervous system (CNS) depressants (including street drugs) can cause severe drowsiness, breathing problems (respiratory depression), coma and death.** Get emergency help right away if any of the following happens:
 - shallow or slowed breathing
 - breathing stops (which may lead to the heart stopping)
 - excessive sleepiness (sedation)Do not drive or operate heavy machinery until you know how taking XANAX with opioids affects you.
- **Risk of abuse, misuse, and addiction.** There is a risk of abuse, misuse, and addiction with benzodiazepines, including XANAX, which can lead to overdose and serious side effects including coma and death.
 - **Serious side effects including coma and death have happened in people who have abused or misused benzodiazepines, including XANAX.** These serious side effects may also include delirium, paranoia, suicidal thoughts or actions, seizures, and difficulty breathing. **Call your healthcare provider or go to the nearest hospital emergency room right away if you get any of these serious side effects.**
 - **You can develop an addiction even if you take XANAX as prescribed by your healthcare provider.**
 - **Take XANAX exactly as your healthcare provider prescribed.**
 - Do not share your XANAX with other people.
 - Keep XANAX in a safe place and away from children.
- **Physical dependence and withdrawal reactions.** XANAX can cause physical dependence and withdrawal reactions.
 - **Do not suddenly stop taking XANAX.** Stopping XANAX suddenly can cause serious and life-threatening side effects, including, unusual movements, responses, or expressions, seizures, sudden and severe mental or nervous system changes, depression, seeing or hearing things that others do not see or hear, an extreme increase in activity or talking, losing touch with reality, and suicidal thoughts or actions. **Call your healthcare provider or go to the nearest hospital emergency room right away if you get any of these symptoms.**
 - **Some people who suddenly stop benzodiazepines, have symptoms that can last for several weeks to more than 12 months,** including, anxiety, trouble remembering, learning, or concentrating, depression, problems sleeping, feeling like insects are crawling under your skin, weakness, shaking, muscle twitching, burning or prickling feeling in your hands, arms, legs or feet, and ringing in your ears.
 - Physical dependence is not the same as drug addiction. Your healthcare provider can tell you more about the differences between physical dependence and drug addiction.
- Do not take more XANAX than prescribed or take XANAX for longer than prescribed.

What is XANAX?

- XANAX is a prescription medicine used:
 - to treat anxiety disorders
 - for the short-term relief of the symptoms of anxiety
 - to treat panic disorder with or without a fear of places and situations that might cause panic, helplessness, or embarrassment (agoraphobia)
- **XANAX is a federal controlled substance (C-IV) because it contains alprazolam that can be abused or lead to dependence.** Keep XANAX in a safe place to prevent misuse and abuse. Selling or giving away XANAX may harm others, and is against the law. Tell your healthcare provider if you have abused or been dependent on alcohol, prescription medicines or

street drugs. • It is not known if XANAX is safe and effective in children. • Elderly patients are especially susceptible to dose related adverse effects when taking XANAX. • It is not known if XANAX is safe and effective when used to treat anxiety disorder for longer than 4 months. • It is not known if XANAX is safe and effective when used to treat panic disorder for longer than 10 weeks.
Do not take XANAX if: • you are allergic to alprazolam, other benzodiazepines, or any of the ingredients in XANAX. See the end of this Medication Guide for a complete list of ingredients in XANAX. • you are taking antifungal medicines including ketoconazole and itraconazole
Before you take XANAX, 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 liver or kidney problems • have lung disease or breathing problems • are pregnant or plan to become pregnant. • Taking XANAX late in pregnancy may cause your baby to have symptoms of sedation (breathing problems, sluggishness, low muscle tone), and/or withdrawal symptoms (jitteriness, irritability, restlessness, shaking, excessive crying, feeding problems). • Tell your healthcare provider right away if you become pregnant or think you are pregnant during treatment with XANAX. • There is a pregnancy registry for women who take XANAX during pregnancy. The purpose of the registry is to collect information about the health of you and your baby. If you become pregnant during treatment with XANAX, talk to your healthcare provider about registering with the National Pregnancy Registry for Psychiatric Medications. You can register by calling 1-866-961-2388 or visiting https://womensmentalhealth.org/pregnancyregistry/. • are breastfeeding or plan to breastfeed. XANAX passes into your breast milk. • Talk to your healthcare provider about the best way to feed your baby if you take XANAX. • Breastfeeding is not recommended during treatment with XANAX. Tell your healthcare provider about all the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements. Taking XANAX with certain other medicines can cause side effects or affect how well XANAX or the other medicines work. Do not start or stop other medicines without talking to your healthcare provider.
How should I take XANAX? • See “What is the most important information I should know about XANAX?” • Take XANAX exactly as your healthcare provider tells you to take it. Your healthcare provider will tell you how much XANAX to take and when to take it. • If you take too much XANAX, call your healthcare provider or go to the nearest hospital emergency room right away.
What are the possible side effects of XANAX? XANAX may cause serious side effects, including: • See “What is the most important information I should know about XANAX?” • Seizures. Stopping XANAX can cause seizures and seizures that will not stop (status epilepticus). • Mania. XANAX may cause an increase in activity and talking (hypomania and mania) in people who have depression. ○ XANAX can make you sleepy or dizzy and can slow your thinking and motor skills. Do not drive, operate heavy machinery, or do other dangerous activities until you know how XANAX affects you. ○ Do not drink alcohol or take other drugs that may make you sleepy or dizzy while taking XANAX without first talking to your healthcare provider. When taken with alcohol or drugs

that cause sleepiness or dizziness, XANAX may make your sleepiness or dizziness much worse.

The most common side effects of XANAX include:

- problems with coordination
- hypotension
- trouble saying words clearly (dysarthria)
- changes in sex drive (libido)

These are not all the possible side effects of XANAX. 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 XANAX?

- Store XANAX at room temperature between 68°F to 77°F (20°C to 25°C)
- **Keep XANAX and all medicines out of the reach of children.**

General information about the safe and effective use of XANAX.

- Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide.
- Do not use XANAX for a condition for which it was not prescribed.
- Do not give XANAX 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 XANAX that is written for health professionals.

What are the ingredients in XANAX?

Active ingredient: alprazolam

Inactive ingredients: Cellulose, corn starch, docusate sodium, lactose, magnesium stearate, silicon dioxide and sodium benzoate. In addition, the 0.5 mg tablet contains FD&C Yellow No. 6 and the 1 mg tablet contains FD&C Blue No. 2.

XANAX® is a registered trademark of UPJOHN US 2 LLC, a Viatris Company.

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

Distributed by:
Viatris Specialty LLC
Morgantown, WV 26505 U.S.A.

UPJ:MG:NXNT:RX1

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

Revised: 1/2023

HIGHLIGHTS OF PRESCRIBING INFORMATION

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

XANAX[®] XR (alprazolam) extended-release tablets, for oral use, CIV
Initial U.S. Approval: 1981

WARNING: RISKS FROM CONCOMITANT USE WITH OPIOIDS; ABUSE, MISUSE, AND ADDICTION; and DEPENDENCE AND WITHDRAWAL REACTIONS

See full prescribing information for complete boxed warning.

- Concomitant use of benzodiazepines and opioids may result in profound sedation, respiratory depression, coma, and death. Reserve concomitant prescribing of these drugs for use in patients for whom alternative treatment options are inadequate. Limit dosages and durations to the minimum required. Follow patients for signs and symptoms of respiratory depression and sedation. (5.1, 7.1)
- The use of benzodiazepines, including XANAX XR, exposes users to risks of abuse, misuse, and addiction, which can lead to overdose or death. Before prescribing XANAX XR and throughout treatment, assess each patient's risk for abuse, misuse, and addiction. (5.2)
- Abrupt discontinuation or rapid dosage reduction of XANAX XR after continued use may precipitate acute withdrawal reactions, which can be life-threatening. To reduce the risk of withdrawal reactions, use a gradual taper to discontinue XANAX XR or reduce the dosage. (2.2, 5.3)

RECENT MAJOR CHANGES

Warnings and Precautions (5.8)

1/2023

INDICATIONS AND USAGE

XANAX XR is a benzodiazepine indicated for the treatment of panic disorder with or without agoraphobia, in adults. (1)

DOSAGE AND ADMINISTRATION

- Recommended starting oral dosage is 0.5 mg to 1 mg once daily (preferably in the morning). Depending on the response, the dose may be increased at intervals of 3 to 4 days in increments of no more than 1 mg daily. (2.1)
- Recommended total daily dosage is 3 mg to 6 mg daily. (2.1)
- Swallow tablets whole; do not divide, crush, or chew. (2.1)
- When tapering, decrease dosage by no more than 0.5 mg every 3 days. Some patients may require an even slower dosage reduction. (2.2, 5.2)
- See the Full Prescribing Information for the recommended dosage in geriatric patients, patients with hepatic impairment, and with use with ritonavir. (2.3, 2.4, 2.5)

DOSAGE FORMS AND STRENGTHS

Extended Release Tablets: 0.5 mg, 1 mg, 2 mg, and 3 mg (3)

CONTRAINDICATIONS

- Known hypersensitivity to alprazolam or other benzodiazepines. (4)
- Concomitant use with strong cytochrome P450 3A (CYP3A) inhibitors, except ritonavir. (4, 5.5, 7.1)

WARNINGS AND PRECAUTIONS

- Effects on Driving and Operating Machinery: Patients receiving XANAX XR should be cautioned against operating machinery or driving a motor vehicle, as well as avoiding concomitant use of alcohol and other central nervous system (CNS) depressant drugs. (5.4)
- Patients with Depression: Exercise caution in patients with signs or symptoms of depression. Prescribe the least number of tablets feasible to avoid intentional overdose. (5.6)
- Neonatal Sedation and Withdrawal Syndrome: XANAX XR use during pregnancy can result in neonatal sedation and/or neonatal withdrawal. (5.8, 8.1)

ADVERSE REACTIONS

The most common adverse reactions in panic disorder patients treated with XANAX XR (incidence of $\geq 5\%$ and at least twice that of placebo) include: somnolence, memory impairment, dysarthria, coordination abnormal, ataxia, libido decreased, constipation, and nausea. (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Viatris at 1-877-446-3679 (1-877-4-INFO-RX) or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

DRUG INTERACTIONS

- Use with Opioids: Increase the risk of respiratory depression. (7.1)
- Use with Other CNS Depressants: Produces additive CNS depressant effects. (7.1)
- Use with Digoxin: Increase the risk of digoxin toxicity. (7.1)
- Use with CYP3A Inhibitors (except ritonavir): Increase the risk of adverse reactions of alprazolam. (4, 5.5, 7.1)
- Use with CYP3A Inducers: Increase the risk of reduced efficacy of alprazolam. (7.1)

USE IN SPECIFIC POPULATIONS

Lactation: Breastfeeding not recommended. (8.2)

See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.

Revised: 1/2023

FULL PRESCRIBING INFORMATION: CONTENTS*

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FULL PRESCRIBING INFORMATION

WARNING: RISKS FROM CONCOMITANT USE WITH OPIOIDS; ABUSE, MISUSE, AND ADDICTION; and DEPENDENCE AND WITHDRAWAL REACTIONS

- Concomitant use of benzodiazepines and opioids may result in profound sedation, respiratory depression, coma, and death. Reserve concomitant prescribing of these drugs for patients for whom alternative treatment options are inadequate. Limit dosages and durations to the minimum required. Follow patients for signs and symptoms of respiratory depression and sedation [see *Warnings and Precautions (5.1)*, *Drug Interactions (7.1)*].
- The use of benzodiazepines, including XANAX XR, exposes users to risks of abuse, misuse, and addiction, which can lead to overdose or death. Abuse and misuse of benzodiazepines commonly involve concomitant use of other medications, alcohol, and/or illicit substances, which is associated with an increased frequency of serious adverse outcomes. Before prescribing XANAX XR and throughout treatment, assess each patient's risk for abuse, misuse, and addiction [see *Warnings and Precautions (5.2)*].
- The continued use of benzodiazepines, including XANAX XR, may lead to clinically significant physical dependence. The risks of dependence and withdrawal increase with longer treatment duration and higher daily dose. Abrupt discontinuation or rapid dosage reduction of XANAX XR after continued use may precipitate acute withdrawal reactions, which can be life-threatening. To reduce the risk of withdrawal reactions, use a gradual taper to discontinue XANAX XR or reduce the dosage [see *Dosage and Administration (2.2)*, *Warnings and Precautions (5.3)*].

1 INDICATIONS AND USAGE

XANAX XR is indicated for the treatment of panic disorder with or without agoraphobia, in adults.

2 DOSAGE AND ADMINISTRATION

2.1 Recommended Dosage

Administer XANAX XR orally once daily, preferably in the morning. Swallow tablets whole; do not divide, crush, or chew.

The recommended starting oral dosage for XANAX XR is 0.5 mg to 1 mg once daily. Depending on the response, the dosage may be adjusted at intervals of every 3 to 4 days in increments of no more than 1 mg daily. The recommended dosage range is 3 mg to 6 mg once daily.

Controlled trials of XANAX XR for the treatment of panic disorder included dosages in the range of 1 mg to 10 mg per day. Most patients showed a response in the dosage range of 3 mg to 6 mg per day. Occasional patients required as much as 10 mg per day.

The longer-term efficacy of XANAX XR has not been systematically evaluated. If XANAX XR is used for periods longer than 8 weeks, the healthcare provider should periodically reassess the usefulness of the drug for the individual patient.

After a period of extended freedom from panic attacks, a carefully supervised tapered discontinuation may be attempted, but there is evidence that this may often be difficult to accomplish without recurrence of symptoms and/or the manifestation of withdrawal phenomena [see *Dosage and Administration (2.2)*, *Warnings and Precautions (5.2)*].

2.2 Discontinuation or Dosage Reduction of XANAX XR

To reduce the risk of withdrawal reactions, use a gradual taper to discontinue XANAX XR or reduce the dosage. If a patient develops withdrawal reactions, consider pausing the taper or increasing the dosage to the previous tapered dosage level. Subsequently decrease the dosage more slowly [*see Warnings and Precautions (5.3), Drug Abuse and Dependence (9.3)*].

Reduce the dosage by no more than 0.5 mg every three days. Some patients may benefit from an even more gradual discontinuation. Some patients may prove resistant to all discontinuation regimens.

In a controlled postmarketing discontinuation study of panic disorder patients which compared the recommended taper schedule with a slower taper schedule, no difference was observed between the groups in the proportion of patients who tapered to zero dose; however, the slower schedule was associated with a reduction in symptoms associated with a withdrawal syndrome.

2.3 Dosage Recommendations in Geriatric Patients

In geriatric patients, the recommended starting dosage of XANAX XR is 0.5 mg once daily. This may be gradually increased if needed and tolerated. Geriatric patients may be sensitive to the effects of benzodiazepines [*see Use in Specific Populations (8.5), Clinical Pharmacology (12.3)*].

2.4 Dosage Recommendations in Patients with Hepatic Impairment

In patients with hepatic impairment, the recommended starting dosage of XANAX XR is 0.5 mg once daily. This may be gradually increased if needed and tolerated [*see Use in Specific Populations (8.6), Clinical Pharmacology (12.3)*].

2.5 Dosage Modifications for Drug Interactions

XANAX XR should be reduced to half of the recommended dosage when a patient is started on ritonavir and XANAX XR together, or when ritonavir is added to a patient treated with XANAX XR. Increase XANAX XR dosage to the target dose after 10 to 14 days of dosing ritonavir and XANAX XR together. It is not necessary to reduce XANAX XR dosage in patients who have been taking ritonavir for more than 10 to 14 days.

XANAX XR is contraindicated with concomitant use of all strong CYP3A inhibitors, except ritonavir [*see Contraindications (4), Warnings and Precautions (5.5), Drug Interactions (7.1)*].

2.6 Switching Patients from XANAX Tablets to XANAX XR Tablets

Patients who are currently being treated with divided doses of XANAX may be switched to XANAX XR at the same total daily dose taken once daily. If the clinical response after switching is inadequate, titrate the dosage as outlined above.

3 DOSAGE FORMS AND STRENGTHS

XANAX XR extended-release tablets are available as:

- 0.5 mg: white, pentagonal shaped tablets debossed with an "X" on one side and "0.5" on the other side
- 1 mg: yellow, square shaped tablets debossed with an "X" on one side and "1" on the other side
- 2 mg: blue, round shaped tablets debossed with an "X" on one side and "2" on the other side
- 3 mg: green, triangular shaped tablets debossed with an "X" on one side and "3" on the other side

4 CONTRAINDICATIONS

XANAX XR is contraindicated in patients:

- with known hypersensitivity to alprazolam or other benzodiazepines. Angioedema has been reported [see *Adverse Reactions* (6.2)].
- taking strong cytochrome P450 3A (CYP3A) inhibitors (e.g., ketoconazole, itraconazole), except ritonavir [see *Dosage and Administration* (2.5), *Warnings and Precautions* (5.5), *Drug Interactions* (7.1)].

5 WARNINGS AND PRECAUTIONS

5.1 Risks from Concomitant Use with Opioids

Concomitant use of benzodiazepines, including XANAX XR, and opioids may result in profound sedation, respiratory depression, coma, and death. Because of these risks, reserve concomitant prescribing of these drugs in patients for whom alternative treatment options are inadequate.

Observational studies have demonstrated that concomitant use of opioid analgesics and benzodiazepines increases the risk of drug-related mortality compared to use of opioids alone. If a decision is made to prescribe XANAX XR concomitantly with opioids, prescribe the lowest effective dosages and minimum durations of concomitant use, and follow patients closely for signs and symptoms of respiratory depression and sedation. In patients already receiving an opioid analgesic, prescribe a lower initial dose of XANAX XR than indicated in the absence of an opioid and titrate based on clinical response. If an opioid is initiated in a patient already taking XANAX XR, prescribe a lower initial dose of the opioid and titrate based upon clinical response.

Advise both patients and caregivers about the risks of respiratory depression and sedation when XANAX XR is used with opioids. Advise patients not to drive or operate heavy machinery until the effects of concomitant use with the opioid have been determined [see *Drug Interactions* (7.1)].

5.2 Abuse, Misuse, and Addiction

The use of benzodiazepines, including XANAX XR, exposes users to the risks of abuse, misuse, and addiction, which can lead to overdose or death. Abuse and misuse of benzodiazepines often (but not always) involve the use of doses greater than the maximum recommended dosage and commonly involve concomitant use of other medications, alcohol, and/or illicit substances, which is associated with an increased frequency of serious adverse outcomes, including respiratory depression, overdose, or death [see *Drug Abuse and Dependence* (9.2)].

Before prescribing XANAX XR and throughout treatment, assess each patient's risk for abuse, misuse, and addiction (e.g., using a standardized screening tool). Use of XANAX XR, particularly in patients at elevated risk, necessitates counseling about the risks and proper use of XANAX XR along with monitoring for signs and symptoms of abuse, misuse, and addiction. Prescribe the lowest effective dosage; avoid or minimize concomitant use of CNS depressants and other substances associated with abuse, misuse, and addiction (e.g., opioid analgesics, stimulants); and advise patients on the proper disposal of unused drug. If a substance use disorder is suspected, evaluate the patient and institute (or refer them for) early treatment, as appropriate.

5.3 Dependence and Withdrawal Reactions

To reduce the risk of withdrawal reactions, use a gradual taper to discontinue XANAX XR or reduce the dosage (a patient-specific plan should be used to taper the dose) [see *Dosage and Administration* (2.3)].

Patients at an increased risk of withdrawal adverse reactions after benzodiazepine discontinuation or rapid dosage reduction include those who take higher dosages, and those who have had longer durations of use.

Acute Withdrawal Reactions

The continued use of benzodiazepines, including XANAX XR, may lead to clinically significant physical dependence. Abrupt discontinuation or rapid dosage reduction of XANAX XR after continued use, or administration of flumazenil (a benzodiazepine antagonist) may precipitate acute withdrawal reactions, which can be life-threatening (e.g., seizures) [see *Drug Abuse and Dependence* (9.3)].

Protracted Withdrawal Syndrome

In some cases, benzodiazepine users have developed a protracted withdrawal syndrome with withdrawal symptoms lasting weeks to more than 12 months [see *Drug Abuse and Dependence* (9.3)].

Certain adverse clinical events, some life-threatening, are a direct consequence of physical dependence to XANAX XR. These include a spectrum of withdrawal symptoms; the most important is seizure [see *Drug Abuse and Dependence* (9.3)]. Even after relatively short-term use at doses of ≤ 4 mg/day, there is some risk of dependence. Spontaneous reporting system data suggest that the risk of dependence and its severity appear to be greater in patients treated with doses greater than 4 mg/day and for long periods (more than 12 weeks). However, in a controlled postmarketing discontinuation study of panic disorder patients who received XANAX, the duration of treatment (3 months compared to 6 months) had no effect on the ability of patients to taper to zero dose. In contrast, patients treated with doses of XANAX greater than 4 mg/day had more difficulty tapering to zero dose than those treated with less than 4 mg/day.

In a controlled clinical trial in which 63 patients were randomized to XANAX and where withdrawal symptoms were specifically sought, the following were identified as symptoms of withdrawal: heightened sensory perception, impaired concentration, dysosmia, clouded sensorium, paresthesias, muscle cramps, muscle twitch, diarrhea, blurred vision, appetite decrease, and weight loss. Other symptoms, such as anxiety and insomnia, were frequently seen during discontinuation, but it could not be determined if they were due to return of illness, rebound, or withdrawal.

Interdose Symptoms

Early morning anxiety and emergence of anxiety symptoms between doses of XANAX have been reported in patients with panic disorder taking prescribed maintenance doses. These symptoms may reflect the development of tolerance or a time interval between doses which is longer than the duration of clinical action of the administered dose. In either case, it is presumed that the prescribed dose is not sufficient to maintain plasma levels above those needed to prevent relapse, rebound, or withdrawal symptoms over the entire course of the interdosing interval.

5.4 Effects on Driving and Operating Machinery

Because of its CNS depressant effects, patients receiving XANAX XR should be cautioned against engaging in hazardous occupations or activities requiring complete mental alertness such as operating machinery or driving a motor vehicle. For the same reason, patients should be cautioned about the concomitant use of alcohol and other CNS depressant drugs during treatment with XANAX XR [see *Drug Interactions* (7.1)].

5.5 Interaction with Drugs that Inhibit Metabolism via Cytochrome P450 3A

The initial step in alprazolam metabolism is hydroxylation catalyzed by cytochrome P450 3A (CYP3A). Drugs that inhibit this metabolic pathway may have a profound effect on the clearance of alprazolam.

Strong CYP3A Inhibitors

XANAX XR is contraindicated in patients receiving strong inhibitors of CYP3A such as azole antifungal agents [see *Contraindications* (4)]. Ketoconazole and itraconazole have been shown in vivo to increase plasma alprazolam concentrations 3.98 fold and 2.70 fold, respectively.

Dosage adjustment is necessary when XANAX XR and ritonavir are initiated concomitantly or when ritonavir is added to a stable dosage of XANAX XR [see *Dosage and Administration* (2.5), *Drug Interactions* (7.1)].

Drugs demonstrated to be CYP3A inhibitors on the basis of clinical studies involving alprazolam: nefazodone, fluvoxamine, and cimetidine [see *Drug Interaction* (7.1), *Clinical Pharmacology* (12.3)]. Use caution and consider dose reduction of XANAX XR, as appropriate, during co-administration with these drugs.

5.6 Patients with Depression

Benzodiazepines may worsen depression. Panic disorder has been associated with primary and secondary major depressive disorders and increased reports of suicide among untreated patients. Consequently, appropriate precautions (e.g., limiting the total prescription size and increased monitoring for suicidal ideation) should be considered in patients with depression.

5.7 Mania

Episodes of hypomania and mania have been reported in association with the use of XANAX XR in patients with depression [see *Adverse Reactions* (6.1)].

5.8 Neonatal Sedation and Withdrawal Syndrome

Use of XANAX XR late in pregnancy can result in sedation (respiratory depression, lethargy, hypotonia) and/or withdrawal symptoms (hyperreflexia, irritability, restlessness, tremors, inconsolable crying, and feeding difficulties) in the neonate [see *Use in Specific Populations* (8.1)]. Monitor neonates exposed to XANAX XR during pregnancy or labor for signs of sedation and monitor neonates exposed to XANAX XR during pregnancy for signs of withdrawal; manage these neonates accordingly.

5.9 Risks in Patients with Impaired Respiratory Function

There have been reports of death in patients with severe pulmonary disease shortly after the initiation of treatment with alprazolam. Closely monitor patients with impaired respiratory function. If signs and symptoms of respiratory depression, hypoventilation, or apnea occur, discontinue XANAX XR.

6 ADVERSE REACTIONS

The following clinically significant adverse reactions are described elsewhere in the labeling:

- Risks from Concomitant Use with Opioids [see *Warnings and Precautions* (5.1)]
- Abuse, Misuse, and Addiction [see *Warnings and Precautions* (5.2)]
- Dependence and Withdrawal Reactions [see *Warnings and Precautions* (5.3)]
- Effects on Driving and Operating Machinery [see *Warnings and Precautions* (5.4)]
- Patients with Depression [see *Warnings and Precautions* (5.7)]
- Neonatal Sedation and Withdrawal Syndrome [see *Warnings and Precautions* (5.8)]
- Risks in Patients with Impaired Respiratory Function [see *Warnings and Precautions* (5.9)]

6.1 Clinical Trials Experience

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

The information included in the section on Adverse Reactions Observed in Short-Term, Placebo-Controlled Trials with XANAX XR is based on pooled data of five 6- and 8-week placebo-controlled clinical studies in panic disorder.

Adverse Reactions Observed in Short-Term, Placebo-Controlled Trials of XANAX XR

Adverse Reactions Reported as Reasons for Discontinuation of Treatment in Placebo-Controlled Trials
Approximately 17% of the 531 patients who received XANAX XR in placebo-controlled clinical trials for panic disorder had at least 1 adverse event that led to discontinuation compared to 8% of 349 placebo-treated patients. The most common events leading to discontinuation and considered to be drug-related (i.e., leading to discontinuation in at least 1% of the patients treated with XANAX XR at a rate at least twice that of placebo) are shown in Table 1.

Table 1: Adverse Reactions Leading to Discontinuation in $\geq 1\%$ of XANAX XR-treated Patients and at least twice the Rate of Placebo-treated Patients in Placebo-Controlled Trials

	Percentage of Patients Discontinuing Due to Adverse Reactions	
	XANAX XR (n=531)	Placebo (n=349)
Nervous system disorders		
Sedation	7.5	0.6
Somnolence	3.2	0.3
Dysarthria	2.1	0
Coordination abnormal	1.9	0.3
Memory impairment	1.5	0.3
General disorders/administration site conditions		
Fatigue	1.7	0.6
Psychiatric disorders		
Depression	2.5	1.2

n=number of patients

Adverse Reactions Occurring at an Incidence of 1% or More Among Patients Treated with XANAX XR

Table 2 shows the incidence of adverse reactions that occurred during 6- and 8-week placebo-controlled trials in 1% or more of patients treated with XANAX XR where the incidence in patients treated with XANAX XR was greater than the incidence in placebo-treated patients. The most commonly observed adverse reactions in panic disorder patients treated with XANAX XR (incidence of 5% or greater and at least twice the incidence in placebo patients) were: sedation, somnolence, memory impairment, dysarthria, coordination abnormal, ataxia, libido decreased.

Table 2: Adverse Reactions Occuring in $\geq 1\%$ in XANAX-treated Patients and Greater than Placebo-treated Patients in 6 and 8 week Placebo-Controlled Trials Panic Disorder

	XANAX XR (n=531)	Placebo (n=349)
Nervous system disorders		
Sedation	45%	23%
Somnolence	23%	6%
Memory impairment	15%	7%
Dysarthria	11%	3%
Coordination abnormal	9%	1%
Mental impairment	7%	6%
Ataxia	7%	3%
Disturbance in attention	3%	1%
Balance impaired	3%	1%
Dyskinesia	2%	1%
Hypoesthesia	1%	<1%
Hypersomnia	1%	0%
General disorders/administration site conditions		
Fatigue	14%	9%
Lethargy	2%	1%
Psychiatric disorders		
Depression	12%	9%
Libido decreased	6%	2%
Disorientation	2%	0%
Confusion	2%	1%
Depressed mood	1%	<1%
Metabolism and nutrition disorders		
Appetite increased	7%	6%
Anorexia	2%	0%
Gastrointestinal disorders		
Constipation	8%	4%
Nausea	6%	3%
Investigations		
Weight increased	5	4
Injury, poisoning, and procedural complications		
Road traffic accident	2%	0%
Reproductive system and breast disorders		
Dysmenorrhea	4%	3%
Sexual dysfunction	2%	1%
Musculoskeletal and connective tissue disorder		
Arthralgia	2%	1%
Myalgia	2%	1%
Pain in limb	1%	0%
Respiratory, thoracic, and mediastinal disorders		
Dyspnea	2%	0%

Other Adverse Reactions Observed During the Premarketing Evaluation of XANAX XR

Following is a list of other adverse reaction reported by 531 patients with panic disorder treated with XANAX XR. Adverse reactions are further categorized by body system and listed in order of decreasing frequency according to the following definitions: those occurring in at least 1/100 patients (frequent); those occurring in less than 1/100 patients but at least 1/1000 patients (infrequent); those occurring in fewer than 1/1000 patients (rare).

Cardiac disorders: *Frequent:* palpitation; *Infrequent:* sinus tachycardia

Ear and Labyrinth disorders: *Frequent:* Vertigo; *Infrequent:* tinnitus, ear pain

Eye disorders: *Frequent:* blurred vision; *Infrequent:* mydriasis, photophobia

Gastrointestinal disorders: *Frequent:* diarrhea, vomiting, dyspepsia, abdominal pain; *Infrequent:* dysphagia, salivary hypersecretion

General disorders and administration site conditions: *Frequent:* malaise, weakness, chest pains;

Infrequent: fall, pyrexia, thirst, feeling hot and cold, edema, feeling jittery, sluggishness, asthenia, feeling drunk, chest tightness, increased energy, feeling of relaxation, hangover, loss of control of legs, rigors

Musculoskeletal and connective tissue disorders: *Frequent:* back pain, muscle cramps, muscle twitching

Nervous system disorders: *Frequent:* headache, dizziness, tremor; *Infrequent:* amnesia, clumsiness, syncope, hypotonia, seizures, depressed level of consciousness, sleep apnea syndrome, sleep talking, stupor

Psychiatric system disorders: *Frequent:* irritability, insomnia, nervousness, derealization, libido increased, restlessness, agitation, depersonalization, nightmare; *Infrequent:* abnormal dreams, apathy, aggression, anger, bradyphrenia, euphoric mood, logorrhea, mood swings, dysphonia, hallucination, homicidal ideation, mania, hypomania, impulse control, psychomotor retardation, suicidal ideation

Renal and urinary disorders: *Frequent:* difficulty in micturition; *Infrequent:* urinary frequency, urinary incontinence

Respiratory, thoracic, and mediastinal disorders: *Frequent:* nasal congestion, hyperventilation; *Infrequent:* choking sensation, epistaxis, rhinorrhea

Skin and subcutaneous tissue disorders: *Frequent:* sweating increased; *Infrequent:* clamminess, rash, urticaria

Vascular disorders: *Infrequent:* hypotension

Discontinuation-Emergent Adverse Reactions Occurring at an Incidence of 5% or More Among Patients Treated with XANAX XR

Table 3 shows the incidence of discontinuation-emergent adverse reactions that occurred during short-term, placebo-controlled trials in 5% or more of patients treated with XANAX XR where the incidence in patients treated with XANAX XR was 2 times greater than the incidence in placebo-treated patients.

Table 3: Discontinuation-Emergent Symptom Incidence Reported in $\geq 5\%$ of XANAX XR-treated Patients and at least twice the Rate of Placebo-treated Patients in Short-Term, Placebo-Controlled Trials

	XANAX XR n=422 (%)	Placebo n=261(%)
Nervous system disorders		
Tremor	28.2	10.7
Headache	26.5	12.6
Hypoesthesia	7.8	2.3
Paraesthesia	7.1	2.7

Psychiatric disorders		
Insomnia	24.2	9.6
Nervousness	21.8	8.8
Depression	10.9	5.0
Derealization	8.0	3.8
Anxiety	7.8	2.7
Depersonalization	5.7	1.9
Gastrointestinal disorders		
Diarrhea	12.1	3.1
Respiratory, thoracic and mediastinal disorders		
Hyperventilation	8.5	2.7
Metabolism and nutrition disorders		
Appetite decreased	9.5	3.8
Musculoskeletal and connective tissue disorders		
Muscle twitching	7.4	2.7
Vascular disorders		
Hot flushes	5.9	2.7

There have also been reports of withdrawal seizures upon rapid decrease or abrupt discontinuation of Xanax [see *Warning and Precautions (5.2), Drug Abuse and Dependence (9.3)*].

Paradoxical reactions such as stimulation, increased muscle spasticity, sleep disturbances, hallucinations, and other adverse behavioral effects such as agitation, rage, irritability, and aggressive or hostile behavior have been reported rarely. In many of the spontaneous case reports of adverse behavioral effects, patients were receiving other CNS drugs concomitantly and/or were described as having underlying psychiatric conditions. Should any of the above events occur, alprazolam should be discontinued. Isolated published reports involving small numbers of patients have suggested that patients who have borderline personality disorder, a prior history of violent or aggressive behavior, or alcohol or substance abuse may be at risk for such events. Instances of irritability, hostility, and intrusive thoughts have been reported during discontinuation of alprazolam in patients with posttraumatic stress disorder.

6.2 Postmarketing Experience

The following adverse reactions have been identified during post-approval use of XANAX and/or XANAX XR. 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.

Endocrine disorders: Hyperprolactinemia

General disorders and administration site conditions: Edema peripheral

Hepatobiliary disorders: Hepatitis, hepatic failure, jaundice

Investigations: Liver enzyme elevations

Psychiatric disorders: Hypomania, mania

Reproductive system and breast disorders: Gynecomastia, galactorrhea, menstruation irregular

Skin and subcutaneous tissue disorders: Photosensitivity reaction, angioedema, Stevens-Johnson syndrome

7 DRUG INTERACTIONS

7.1 Drugs Having Clinically Important Interactions with XANAX XR

Table 4 includes clinically significant drug interactions with XANAX XR [see *Clinical Pharmacology* (12.3)].

Table 4: Clinically Significant Drug Interactions with XANAX XR

Opioids	
Clinical implication	The concomitant use of benzodiazepines and opioids increases the risk of respiratory depression because of actions at different receptor sites in the CNS that control respiration. Benzodiazepines interact at gamma-aminobutyric acid (GABA _A) sites and opioids interact primarily at mu receptors. When benzodiazepines and opioids are combined, the potential for benzodiazepines to significantly worsen opioid-related respiratory depression exists.
Prevention or management	Limit dosage and duration of concomitant use of XANAX XR and opioids, and monitor patients closely for respiratory depression and sedation [see <i>Warnings and Precautions</i> (5.1)].
Examples	Morphine, buprenorphine, hydromorphone, oxycodone, fentanyl, methadone, alfentanil, butorphenol, codeine, dihydrocodeine, meperidine, pentazocine, remifentanyl, sufentanyl, tapentadol, tramadol.
CNS Depressants	
Clinical implication	The benzodiazepines, including alprazolam, produce additive CNS depressant effects when coadministered with other CNS depressants.
Prevention or management	Limit dosage and duration of XANAX XR during concomitant use with CNS depressants [see <i>Warnings and Precautions</i> (5.3)].
Examples	Psychotropic medications, anticonvulsants, antihistaminics, ethanol, and other drugs which themselves produce CNS depression.
Strong Inhibitors of CYP3A (except ritonavir)	
Clinical implication	Concomitant use of XANAX XR with strong CYP3A inhibitors has a profound effect on the clearance of alprazolam, resulting in increased concentrations of alprazolam and increased risk of adverse reactions [see <i>Clinical Pharmacology</i> (12.3)].
Prevention or management	Concomitant use of XANAX XR with a strong CYP3A4 inhibitor (except ritonavir) is contraindicated [see <i>Contraindications</i> (4), <i>Warnings and Precautions</i> (5.5)].
Examples	Ketoconazole, itraconazole, clarithromycin
Moderate or Weak Inhibitors of CYP3A	
Clinical implication	Concomitant use of XANAX XR with CYP3A inhibitors may increase the concentrations of XANAX XR, resulting in increased risk of adverse reactions [see <i>Clinical Pharmacology</i> (12.3)].
Prevention or management	Avoid use and consider appropriate dose reduction when XANAX XR is coadministered with a moderate or weak CYP3A inhibitor [see <i>Warnings and Precautions</i> (5.5)].
Examples	Nefazodone, fluvoxamine, cimetidine, erythromycin
CYP3A Inducers	
Clinical implication	Concomitant use of CYP3A inducers can increase alprazolam metabolism and therefore can decrease plasma levels of alprazolam [see <i>Clinical Pharmacology</i> (12.3)].
Prevention or management	Caution is recommended during coadministration with alprazolam.

Examples	Carbamazepine, phenytoin
Ritonavir	
Clinical implication	Interactions involving ritonavir and alprazolam are complex and time dependent. Short term administration of ritonavir increased alprazolam exposure due to CYP3A4 inhibition. Following long term treatment of ritonavir (> 10 - 14 days), CYP3A4 induction offsets this inhibition. Alprazolam exposure was not meaningfully affected in the presence of ritonavir.
Prevention or management	Reduce XANAX XR dose when a patient is initiated with ritonavir and XANAX XR concomitantly, or when ritonavir is added to a regimen where XANAX XR is stabilized. Increase XANAX XR dosage to the target dosage after 10 to 14 days of dosing ritonavir and XANAX XR concomitantly. No dosage adjustment of XANAX XR is necessary in patients receiving ritonavir for more than 10 to 14 days [<i>see Dosage and Administration (2.5)</i>]. Concomitant use of XANAX XR with a strong CYP3A inhibitor, except ritonavir, is contraindicated [<i>see Contraindications (4), Warnings and Precautions (5.5)</i>].
Digoxin	
Clinical implication	Increased digoxin concentrations have been reported when alprazolam was given, especially in geriatric patients (>65 years of age).
Prevention or management	In patients on digoxin therapy, measure serum digoxin concentrations before initiating XANAX XR. Continue monitoring digoxin serum concentration and toxicity frequently. Reduce the digoxin dose if necessary.

7.2 Drug/Laboratory Test Interactions

Although interactions between benzodiazepines and commonly employed clinical laboratory tests have occasionally been reported, there is no consistent pattern for a specific drug or specific test.

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 psychiatric medications, including XANAX XR, during pregnancy. Healthcare providers are encouraged to register patients by calling the National Pregnancy Registry for Psychiatric Medications at 1-866-961-2388 or visiting online at <https://womensmentalhealth.org/pregnancyregistry/>.

Risk Summary

Neonates born to mothers using benzodiazepines late in pregnancy have been reported to experience symptoms of sedation and/or neonatal withdrawal [*see Warnings and Precautions (5.8), and Clinical Considerations*]. Available data from published observational studies of pregnant women exposed to benzodiazepines do not report a clear association with benzodiazepines and major birth defects (*see Data*).

The background risk of major birth defects and miscarriage for the indicated population is unknown. All pregnancies have a background risk of birth defect, loss, or other adverse outcomes. In the U.S. general

population, the estimated risk of major birth defects and of miscarriage in clinically recognized pregnancies is 2% to 4% and 15% to 20%, respectively.

Clinical Considerations

Fetal/Neonatal adverse reactions

Benzodiazepines cross the placenta and may produce respiratory depression, hypotonia, and sedation in neonates. Monitor neonates exposed to XANAX XR during pregnancy or labor for signs of sedation, respiratory depression, hypotonia, and feeding problems. Monitor neonates exposed to XANAX XR during pregnancy for signs of withdrawal. Manage these neonates accordingly [see *Warnings and Precautions (5.8)*].

Data

Human Data

Published data from observational studies on the use of benzodiazepines during pregnancy do not report a clear association with benzodiazepines and major birth defects. Although early studies reported an increased risk of congenital malformations with diazepam and chlordiazepoxide, there was no consistent pattern noted. In addition, the majority of recent case-control and cohort studies of benzodiazepine use during pregnancy, which were adjusted for confounding exposures to alcohol, tobacco, and other medications, have not confirmed these findings.

8.2 Lactation

Risk Summary

Limited data from published literature reports the presence of alprazolam in human breast milk. There are reports of sedation, poor feeding and poor weight gain in infants exposed to benzodiazepines through breast milk. The effects of alprazolam on lactation are unknown.

Because of the potential for serious adverse reactions, including sedation and withdrawal symptoms in breastfed infants, advise patients that breastfeeding is not recommended during treatment with XANAX XR.

8.4 Pediatric Use

Safety and effectiveness of XANAX XR have not been established in pediatric patients.

8.5 Geriatric Use

XANAX XR-treated geriatric patients had higher plasma concentrations of alprazolam (due to reduced clearance) compared to younger adults receiving the same doses. Therefore, dosage reduction of XANAX XR is recommended in geriatric patients [see *Dosage and Administration (2.3)* and *Clinical Pharmacology (12.3)*].

8.6 Hepatic Impairment

Patients with alcoholic liver disease exhibit a longer elimination half-life (19.7 hours), compared to healthy subjects (11.4 hours). This may be caused by decreased clearance of alprazolam in patients with alcoholic liver disease. Dosage reduction of XANAX XR is recommended in patients with hepatic impairment [see *Dosage and Administration (2.4)*, *Clinical Pharmacology (12.3)*].

9 DRUG ABUSE AND DEPENDENCE

9.1 Controlled Substance

XANAX XR contains alprazolam, which is a Schedule IV controlled substance.

9.2 Abuse

XANAX XR is a benzodiazepine and a CNS depressant with a potential for abuse and addiction. Abuse is the intentional, non-therapeutic use of a drug, even once, for its desirable psychological or physiological effects. Misuse is the intentional use, for therapeutic purposes, of a drug by an individual in a way other than prescribed by a health care provider or for whom it was not prescribed. Drug addiction is a cluster of behavioral, cognitive, and physiological phenomena that may include a strong desire to take the drug, difficulties in controlling drug use (e.g., continuing drug use despite harmful consequences, giving a higher priority to drug use than other activities and obligations), and possible tolerance or physical dependence. Even taking benzodiazepines as prescribed may put patients at risk for abuse and misuse of their medication. Abuse and misuse of benzodiazepines may lead to addiction.

Abuse and misuse of benzodiazepines often (but not always) involve the use of doses greater than the maximum recommended dosage and commonly involve concomitant use of other medications, alcohol, and/or illicit substances, which is associated with an increased frequency of serious adverse outcomes, including respiratory depression, overdose, or death. Benzodiazepines are often sought by individuals who abuse drugs and other substances, and by individuals with addictive disorders [*see Warnings and Precautions (5.2)*].

The following adverse reactions have occurred with benzodiazepine abuse and/or misuse: abdominal pain, amnesia, anorexia, anxiety, aggression, ataxia, blurred vision, confusion, depression, disinhibition, disorientation, dizziness, euphoria, impaired concentration and memory, indigestion, irritability, muscle pain, slurred speech, tremors, and vertigo.

The following severe adverse reactions have occurred with benzodiazepine abuse and/or misuse: delirium, paranoia, suicidal ideation and behavior, seizures, coma, breathing difficulty, and death. Death is more often associated with polysubstance use (especially benzodiazepines with other CNS depressants such as opioids and alcohol).

9.3 Dependence

Physical Dependence

XANAX XR may produce physical dependence from continued therapy. Physical dependence is a state that develops as a result of physiological adaptation in response to repeated drug use, manifested by withdrawal signs and symptoms after abrupt discontinuation or a significant dose reduction of a drug. Abrupt discontinuation or rapid dosage reduction of benzodiazepines or administration of flumazenil, a benzodiazepine antagonist, may precipitate acute withdrawal reactions, including seizures, which can be life-threatening. Patients at an increased risk of withdrawal adverse reactions after benzodiazepine discontinuation or rapid dosage reduction include those who take higher dosages (i.e., higher and/or more frequent doses) and those who have had longer durations of use [*see Warnings and Precautions (5.3)*].

To reduce the risk of withdrawal reactions, use a gradual taper to discontinue XANAX XR or reduce the dosage [*see Dosage and Administration (2.3), Warnings and Precautions (5.3)*].

Acute Withdrawal Signs and Symptoms

Acute withdrawal signs and symptoms associated with benzodiazepines have included abnormal involuntary movements, anxiety, blurred vision, depersonalization, depression, derealization, dizziness, fatigue, gastrointestinal adverse reactions (e.g., nausea, vomiting, diarrhea, weight loss, decreased appetite), headache, hyperacusis, hypertension, irritability, insomnia, memory impairment, muscle pain and stiffness, panic attacks, photophobia, restlessness, tachycardia, and tremor. More severe acute withdrawal signs and symptoms, including life-threatening reactions, have included catatonia, convulsions, delirium tremens, depression, hallucinations, mania, psychosis, seizures, and suicidality.

Protracted Withdrawal Syndrome

Protracted withdrawal syndrome associated with benzodiazepines is characterized by anxiety, cognitive impairment, depression, insomnia, formication, motor symptoms (e.g., weakness, tremor, muscle twitches), paresthesia, and tinnitus that persists beyond 4 to 6 weeks after initial benzodiazepine withdrawal. Protracted withdrawal symptoms may last weeks to more than 12 months. As a result, there may be difficulty in differentiating withdrawal symptoms from potential re-emergence or continuation of symptoms for which the benzodiazepine was being used.

Tolerance

Tolerance to XANAX XR may develop from continued therapy. Tolerance is a physiological state characterized by a reduced response to a drug after repeated administration (i.e., a higher dose of a drug is required to produce the same effect that was once obtained at a lower dose). Tolerance to the therapeutic effect of XANAX XR may develop; however, little tolerance develops to the amnestic reactions and other cognitive impairments caused by benzodiazepines.

10 OVERDOSAGE

Overdosage of benzodiazepines is characterized by central nervous system depression ranging from drowsiness to coma. In mild to moderate cases, symptoms can include drowsiness, confusion, dysarthria, lethargy, hypnotic state, diminished reflexes, ataxia, and hypotonia. Rarely, paradoxical or disinhibitory reactions (including agitation, irritability, impulsivity, violent behavior, confusion, restlessness, excitement, and talkativeness) may occur. In severe overdosage cases, patients may develop respiratory depression and coma. Overdosage of benzodiazepines in combination with other CNS depressants (including alcohol and opioids) may be fatal [see *Warnings and Precautions* (5.2)]. Markedly abnormal (lowered or elevated) blood pressure, heart rate, or respiratory rate raise the concern that additional drugs and/or alcohol are involved in the overdosage.

In managing benzodiazepine overdosage, employ general supportive measures, including intravenous fluids and airway management. Flumazenil, a specific benzodiazepine receptor antagonist indicated for the complete or partial reversal of the sedative effects of benzodiazepines in the management of benzodiazepine overdosage, can lead to withdrawal and adverse reactions, including seizures, particularly in the context of mixed overdosage with drugs that increase seizure risk (e.g., tricyclic and tetracyclic antidepressants) and in patients with long-term benzodiazepine use and physical dependency. The risk of withdrawal seizures with flumazenil use may be increased in patients with epilepsy. Flumazenil is contraindicated in patients who have received a benzodiazepine for control of a potentially life-threatening condition (e.g., status epilepticus). If the decision is made to use flumazenil, it should be used as an adjunct to, not as a substitute for, supportive management of benzodiazepine overdosage. See the flumazenil injection Prescribing Information.

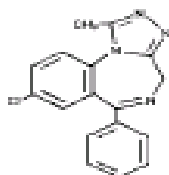
Consider contacting the Poison Help Line at (1-800-222-1222), or a medical toxicologist for additional overdosage management recommendations.

11 DESCRIPTION

XANAX XR contains alprazolam which is a triazolo analog of the 1,4 benzodiazepine class of central nervous system-active compounds.

The chemical name of alprazolam is 8-chloro-1-methyl-6-phenyl-4*H*-s-triazolo [4,3- α] [1,4] benzodiazepine. The molecular formula is C₁₇H₁₃ClN₄ which corresponds to a molecular weight of 308.76.

The structural formula is represented below:



Alprazolam is a white crystalline powder, which is soluble in methanol or ethanol but which has no appreciable solubility in water at physiological pH.

Each XANAX XR extended-release tablet, for oral administration, contains 0.5 mg, 1 mg, 2 mg, or 3 mg of alprazolam. The inactive ingredients are colloidal silicon dioxide, hypromellose, lactose, and magnesium stearate. In addition, the 1 mg and 3 mg tablets contain D & C yellow No. 10 and the 2 mg and 3 mg tablets contain FD&C blue No. 2.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Alprazolam is a 1,4 benzodiazepine. Alprazolam exerts its effect for the treatment of panic disorder through binding to the benzodiazepine site of gamma-aminobutyric acid-A (GABA_A) receptors in the brain and enhances GABA-mediated synaptic inhibition.

12.3 Pharmacokinetics

The pharmacokinetics of alprazolam and two of its major active metabolites (4-hydroxyalprazolam and α -hydroxyalprazolam) are linear, and concentrations are proportional up to 10 mg XANAX XR given once daily.

Absorption

Following oral administration of XANAX XR in the morning, peak plasma concentration of alprazolam ($C_{\max}$) occurs in about 10 hours postdose. Compared to morning dosing, alprazolam $C_{\max}$ increased by 30% and the $T_{\max}$ decreased by an hour following dosing at night.

The mean absolute bioavailability of alprazolam following administration of XANAX XR is approximately 90%, and the relative bioavailability compared to XANAX is about 100%. The bioavailability and pharmacokinetics of alprazolam following administration of XANAX XR are similar to that for XANAX, with the exception of a slower rate of absorption.

Effect of Food

A high-fat meal given up to 2 hours before dosing with XANAX XR increased the mean $C_{\max}$ by about 25%. The effect of this meal on $T_{\max}$ depended on the timing of the meal, with a reduction in $T_{\max}$ by about 1/3 for subjects eating immediately before dosing and an increase in $T_{\max}$ by about 1/3 for subjects eating 1 hour or more after dosing. The extent of exposure (AUC) and elimination half-life ($t_{1/2}$) were not affected by eating.

Distribution

The apparent volume of distribution of alprazolam is similar for XANAX XR and XANAX. Alprazolam is 80% bound to human serum protein, and albumin accounts for the majority of the binding.

Elimination

The mean plasma elimination half-life of alprazolam following administration of XANAX XR ranges from 10.7 to 15.8 hours in healthy adults.

Metabolism

Alprazolam is extensively metabolized in humans, primarily by cytochrome P450 3A4 (CYP3A4), to two major active metabolites in the plasma: 4-hydroxyalprazolam and α -hydroxyalprazolam. The plasma circulation levels of the two active metabolites after both Xanax XR and Xanax are less than 10% and 4% of the parent, respectively. The reported relative potencies in benzodiazepine receptor binding experiments and in animal models of induced seizure inhibition are 0.20 and 0.66, respectively, for 4-hydroxyalprazolam and α -hydroxyalprazolam. The low concentrations and low potencies of 4-hydroxyalprazolam and α -hydroxyalprazolam indicate that they unlikely contribute much to the effects of alprazolam. A benzophenone derived from alprazolam is also found in humans. Their half-lives appear to be similar to that of alprazolam. The pharmacokinetic parameters at steady-state for the two hydroxylated metabolites of alprazolam (4-hydroxyalprazolam and α -hydroxyalprazolam) were similar for XANAX and XANAX XR, indicating that the metabolism of alprazolam is not affected by absorption rate.

Excretion

Alprazolam and its metabolites are excreted primarily in the urine.

Specific Populations

Geriatric Patients

The mean $T_{1/2}$ of alprazolam was 16.3 hours (range: 9.0 to 26.9 hours) in healthy elderly subjects compared to 11.0 hours (range: 6.3 to 15.8 hours, n=16) in healthy adult subjects.

Obese Patients

The mean $T_{1/2}$ of alprazolam was 21.8 hours (range: 9.9 to 40.4 hours) in a group of obese subjects.

Patients with Hepatic Impairment

The mean $T_{1/2}$ of alprazolam was 19.7 hours (range: 5.8 to 65.3 hours) in patients with alcoholic liver disease.

Racial or Ethnic Groups

Maximal concentrations and $T_{1/2}$ of alprazolam are approximately 15% and 25% higher in Asians compared to Caucasians.

Smoking

Alprazolam concentrations may be reduced by up to 50% in smokers compared to non-smokers.

Drug Interaction Studies

In Vivo Studies

Most of the interactions that have been documented with alprazolam are with drugs that modulate CYP3A4 activity.

Compounds that are inhibitors or inducers of CYP3A would be expected to increase or decrease plasma alprazolam concentrations, respectively. Drug products that have been studied in vivo, along with their effect on increasing alprazolam AUC, are as follows: ketoconazole, 3.98 fold; itraconazole, 2.66 fold; nefazodone, 1.98 fold; fluvoxamine, 1.96 fold; and erythromycin, 1.61 fold [see *Contraindications (4)*, *Warnings and Precautions (5.5)*, *Drug Interactions (7.2)*]. Other studied drugs include:

Cimetidine: Coadministration of cimetidine increased the maximum plasma concentration of alprazolam by 82%, decreased clearance by 42%, and increased $T_{1/2}$ by 16%.

Fluoxetine: Coadministration of fluoxetine with alprazolam increased the maximum plasma concentration of alprazolam by 46%, decreased clearance by 21%, increased $T_{1/2}$ by 17%, and decreased measured psychomotor performance.

Oral Contraceptives: Coadministration of oral contraceptives increased the maximum plasma concentration of alprazolam by 18%, decreased clearance by 22%, and increased $T_{1/2}$ by 29%.

Carbamazepine: The oral clearance of alprazolam (given in a 0.8 mg single dose) was increased from 0.90 ± 0.21 mL/min/kg to 2.13 ± 0.54 mL/min/kg and the elimination $T_{1/2}$ was shortened (from 17.1 ± 4.9 to 7.7 ± 1.7 hour) following administration of 300 mg per day carbamazepine for 10 days [see *Drug Interactions* (7.2)]. However, the carbamazepine dose used in this study was fairly low compared to the recommended doses (1000-1200 mg per day); the effect at usual carbamazepine doses is unknown.

Ritonavir: Interactions involving HIV protease inhibitors (eg, ritonavir) and alprazolam are complex and time dependent. Short-term low doses of ritonavir (4 doses of 200 mg) increased mean AUC of alprazolam by about 2.5-fold, and did not significantly affect C_{max} of alprazolam. The elimination $T_{1/2}$ was prolonged (30 hours versus 13 hours). However, upon extended exposure to ritonavir (500 mg, twice daily for 10 days), CYP3A induction offset this inhibition. Alprazolam AUC and C_{max} was reduced by 12% and 16%, respectively, in the presence of ritonavir. The elimination $T_{1/2}$ of alprazolam was not significantly changed [see *Warnings and Precautions* (5.5)].

Sertraline: A single dose of alprazolam 1 mg and steady state dose of sertraline (50 to 150 mg per day) did not reveal any clinically significant changes in the pharmacokinetics of alprazolam.

Imipramine and Desipramine: The steady state plasma concentrations of imipramine and desipramine have been reported to be increased an average of 31% and 20%, respectively, by the concomitant administration of XANAX in doses up to 4 mg per day.

Warfarin: Alprazolam did not affect the prothrombin or plasma warfarin levels in male volunteers administered sodium warfarin orally.

In Vitro Studies

Data from in vitro studies of alprazolam suggest a possible drug interaction of alprazolam with paroxetine. The ability of alprazolam to induce human hepatic enzyme systems has not been determined.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenesis

No evidence of carcinogenic potential was observed in rats or mice administered alprazolam for 2 years at doses up to 30 and 10 mg/kg/day, respectively. These doses are 29 times and 4.8 times the maximum recommended human dose of 10 mg/day based on mg/m² body surface area, respectively.

Mutagenesis

Alprazolam was negative in the in vitro Ames bacterial reverse mutation assay and DNA Damage/Alkaline Elution Assay and in vivo rat micronucleus genetic toxicology assays.

Impairment of Fertility

Alprazolam produced no impairment of fertility in rats at doses up to 5 mg/kg per day, which is approximately 5 times the maximum recommended human dose of 10 mg per day based on mg/m² body surface area.

13.2 Animal Toxicology and/or Pharmacology

When rats were treated with alprazolam at oral doses of 3 mg/kg, 10 mg/kg, and 30 mg/kg per day (3 to 29 times the maximum recommended human dose based on mg/m² body surface area) for 2 years, a tendency for a dose related increase in the number of cataracts was observed in females and a tendency for a dose related increase in corneal vascularization was observed in males. These lesions did not appear until after 11 months of treatment.

14 CLINICAL STUDIES

The efficacy of XANAX XR in the treatment of panic disorder in adults was established in two 6-week, flexible-dose, placebo-controlled studies in adult patients meeting DSM-III criteria for panic disorder. In these studies, patients were treated with XANAX XR in a dose range of 1 mg to 10 mg once per day. The effectiveness of XANAX XR was assessed on the basis of changes in various measures of panic attack frequency, on various measures of the Clinical Global Impression, and on the Overall Phobia Scale. In all, there were 7 primary efficacy measures in these studies, and XANAX XR was superior to placebo on all 7 outcomes in both studies. The mean dose of XANAX XR at the last treatment visit was 4.2 mg per day in the first study and 4.6 mg per day in the second.

In addition, there were two 8-week, fixed-dose, placebo-controlled studies of XANAX XR in adult patients with panic disorder, involving fixed XANAX XR doses of 4 mg and 6 mg/ once per day that did not show a benefit for either dose of XANAX XR.

Analyses of the relationship between treatment outcome and gender did not suggest any differential responsiveness on the basis of gender.

16 HOW SUPPLIED/STORAGE AND HANDLING

XANAX XR is supplied in the following strengths and package configurations:

XANAX XR Tablets			
Package Configuration	Tablet Strength (mg)	NDC	Print
Bottles of 60	0.5 mg	NDC 0009-0057-07	white, pentagonal shaped tablets debossed with an "X" on one side and "0.5" on the other side
Bottles of 60	1 mg	NDC 0009-0059-07	yellow, square shaped tablets debossed with an "X" on one side and "1" on the other side
Bottles of 60	2 mg	NDC 0009-0066-07	blue, round shaped tablets debossed with an "X" on one side and "2" on the other side

XANAX XR Tablets			
Package Configuration	Tablet Strength (mg)	NDC	Print
Bottles of 60	3 mg	NDC 0009-0068-07	green, triangular shaped tablets debossed with an "X" on one side and "3" on the other side

Store at 20°C to 25°C (68°F to 77°F); excursions permitted to 15–30°C (59–86°F) [see USP Controlled Room Temperature].

17 PATIENT COUNSELING INFORMATION

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

Risks from Concomitant Use with Opioids

Advise both patients and caregivers about the risks of potentially fatal respiratory depression and sedation when XANAX XR is used with opioids and not to use such drugs concomitantly unless supervised by a healthcare provider. Advise patients not to drive or operate heavy machinery until the effects of concomitant use with the opioid have been determined [see *Warnings and Precautions (5.1)*, *Drug Interactions (7.1)*].

Abuse, Misuse, and Addiction

Inform patients that the use of XANAX XR, even at recommended dosages, exposes users to risks of abuse, misuse, and addiction, which can lead to overdose and death, especially when used in combination with other medications (e.g., opioid analgesics), alcohol, and/or illicit substances. Inform patients about the signs and symptoms of benzodiazepine abuse, misuse, and addiction; to seek medical help if they develop these signs and/or symptoms; and on the proper disposal of unused drug [see *Warnings and Precautions (5.2)*, *Drug Abuse and Dependence (9.2)*].

Withdrawal Reactions

Inform patients that the continued use of XANAX XR may lead to clinically significant physical dependence and that abrupt discontinuation or rapid dosage reduction of XANAX XR may precipitate acute withdrawal reactions, which can be life-threatening. Inform patients that in some cases, patients taking benzodiazepines have developed a protracted withdrawal syndrome with withdrawal symptoms lasting weeks to more than 12 months. Instruct patients that discontinuation or dosage reduction of XANAX XR may require a slow taper [see *Warnings and Precautions (5.3)*, *Drug Abuse and Dependence (9.3)*].

Effects on Driving and Operating Machinery

Advise patients not to drive a motor vehicle or operate heavy machinery while taking XANAX XR due to its CNS depressant effects. Also advise patients to avoid use of alcohol or other CNS depressants while taking XANAX XR [see *Warnings and Precautions (5.3)*].

Patients with Depression

Advise patients, their families and caregivers to look for signs of suicidality or worsening depression, and to inform the patient's healthcare provider immediately [see *Warnings and Precautions (5.6)*].

Concomitant Medications

Advise patients to inform their healthcare provider of all medicines they take, including prescription and nonprescription medications, vitamins and herbal supplements [see *Drug Interactions (7)*].

Pregnancy

Advise pregnant females that use of XANAX XR late in pregnancy can result in sedation (respiratory depression, lethargy, hypotonia) and/or withdrawal symptoms (hyperreflexia, irritability, restlessness, tremors, inconsolable crying, and feeding difficulties) in newborns [see *Warnings and Precautions (5.8)*, *Use in Specific Populations (8.1)*]. Instruct patients to inform their healthcare provider if they are pregnant.

Advise patients that there is a pregnancy exposure registry that monitors pregnancy outcomes in women exposed to XANAX XR during pregnancy [see *Use in Specific Populations (8.1)*].

Lactation

Advise patients that breastfeeding is not recommended during treatment with XANAX XR [see *Use in Specific Populations (8.2)*].

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Morgantown, WV 26505 U.S.A.

MEDICATION GUIDE XANAX XR (ZAN-aks XR) (alprazolam) extended-release tablets, C-IV
What is the most important information I should know about XANAX XR? • XANAX XR is a benzodiazepine medicine. Taking benzodiazepines with opioid medicines, alcohol, or other central nervous system (CNS) depressants (including street drugs) can cause severe drowsiness, breathing problems (respiratory depression), coma and death. Get emergency help right away if any of the following happens: ○ shallow or slowed breathing ○ breathing stops (which may lead to the heart stopping) ○ excessive sleepiness (sedation) Do not drive or operate heavy machinery until you know how taking XANAX XR with opioids affects you. • Risk of abuse, misuse, and addiction. There is a risk of abuse, misuse, and addiction with benzodiazepines including XANAX XR which can lead to overdose and serious side effects including coma and death. ○ Serious side effects including coma and death have happened in people who have abused or misused benzodiazepines, including XANAX XR. These serious side effects may also include delirium, paranoia, suicidal thoughts or actions, seizures, and difficulty breathing. Call your healthcare provider or go to the nearest hospital emergency room right away if you get any of these serious side effects. ○ You can develop an addiction even if you take XANAX XR as prescribed by your healthcare provider. ○ Take XANAX XR exactly as your healthcare provider prescribed. ○ Do not share your XANAX XR with other people. ○ Keep XANAX XR in a safe place and away from children. • Physical dependence and withdrawal reactions. XANAX XR can cause physical dependence and withdrawal reactions. ○ Do not suddenly stop taking XANAX XR. Stopping XANAX XR suddenly can cause serious and life-threatening side effects, including, unusual movements, responses, or expressions, seizures, sudden and severe mental or nervous system changes, depression, seeing or hearing things that others do not see or hear, an extreme increase in activity or talking, losing touch with reality, and suicidal thoughts or actions. Call your healthcare provider or go to the nearest hospital emergency room right away if you get any of the following symptoms. ○ Some people who suddenly stop benzodiazepines, have symptoms that can last for several weeks to more than 12 months, including, anxiety, trouble remembering, learning, or concentrating, depression, problems sleeping, feeling like insects are crawling under your skin, weakness, shaking, muscle twitching, burning or prickling feeling in your hands, arms, legs or feet, and ringing in your ears. ○ Physical dependence is not the same as drug addiction. Your healthcare provider can tell you more about the differences between physical dependence and drug addiction. ○ Do not take more XANAX XR than prescribed or take XANAX XR for longer than prescribed.
What is XANAX XR? • XANAX XR is a prescription medicine used to treat panic disorder, with or without a fear of places and situations that might cause panic, helplessness, or embarrassment (agoraphobia) • XANAX XR is a federal controlled substance (C-IV) because it contains alprazolam that can be abused or lead to dependence. Keep XANAX XR in a safe place to prevent misuse and abuse. Selling or giving away XANAX XR may harm others and is against the law. Tell your healthcare provider if you have abused or been dependent on alcohol, prescription medicines or street drugs.

- It is not known if XANAX XR is safe and effective in children. - Elderly patients are especially susceptible to dose related adverse effects when taking XANAX XR. - It is not known if XANAX XR is safe and effective in the treatment of panic disorder for use longer than 8 weeks.
Do not take XANAX XR if: - you are allergic to alprazolam, other benzodiazepines, or any of the ingredients in XANAX XR. See the end of this Medication Guide for a complete list of ingredients in XANAX XR. - you are taking antifungal medicines including ketoconazole and itraconazole
Before you take XANAX XR, 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 liver or kidney problems - have lung disease or breathing problems - are pregnant or plan to become pregnant. - Taking XANAX XR late in pregnancy may cause your baby to have symptoms of sedation (breathing problems, sluggishness, low muscle tone), and/or withdrawal symptoms (jitteriness, irritability, restlessness, shaking, excessive crying, feeding problems). - Tell your healthcare provider right away if you become pregnant or think you are pregnant during treatment with XANAX XR. - There is a pregnancy registry for women who take XANAX XR during pregnancy. The purpose of the registry is to collect information about the health of you and your baby. If you become pregnant during treatment with XANAX XR, talk to your healthcare provider about registering with the National Pregnancy Registry for Psychiatric Medications. You can register by calling 1-866-961-2388 or visiting https://womensmentalhealth.org/research/pregnancyregistry/. - are breastfeeding or plan to breastfeed. XANAX XR passes into your breast milk. - Talk to your healthcare provider about the best way to feed your baby if you take XANAX XR. - Breastfeeding is not recommended during treatment with XANAX XR. Tell your healthcare provider about all the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements. Taking XANAX XR with certain other medicines can cause side effects or affect how well XANAX XR or the other medicines work. Do not start or stop other medicines without talking to your healthcare provider.
How should I take XANAX XR? - See “What is the most important information I should know about XANAX XR?” - Take XANAX XR exactly as your healthcare provider tells you to take it. Your healthcare provider will tell you how much XANAX XR to take and when to take it. - If you take too much XANAX XR, call your healthcare provider or go to the nearest hospital emergency room right away. - Swallow XANAX XR tablets whole. Do not crush, chew or break XANAX XR.
What are the possible side effects of XANAX XR? XANAX XR may cause serious side effects, including: - See “What is the most important information I should know about XANAX XR?” Seizures. Stopping XANAX XR can cause seizures and seizures that will not stop (status epilepticus). Mania. XANAX XR may cause an increase in activity and talking (hypomania and mania) in people who have depression. XANAX XR can make you sleepy or dizzy and can slow your thinking and motor skills. - Do not drive, operate heavy machinery, or do other dangerous activities until you know how XANAX XR affects you. Do not drink alcohol or take other drugs that may make you sleepy or dizzy while taking XANAX XR without first talking to your healthcare provider. When taken with alcohol or drugs that cause sleepiness or dizziness, XANAX XR may make your sleepiness or dizziness much worse.

The most common side effects of XANAX XR include: • sleepiness • trouble saying words clearly (dysarthria) • problems with memory • problems with coordination • changes in sex drive (libido) • constipation • nausea These are not all the possible side effects of XANAX XR. 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 XANAX XR? • Store XANAX XR at room temperature between 68°F to 77°F (20°C to 25°C) • Keep XANAX XR and all medicines out of the reach of children.
• General information about the safe and effective use of XANAX XR. • Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. • Do not use XANAX XR for a condition for which it was not prescribed. • Do not give XANAX XR 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 XANAX XR that is written for health professionals.
What are the ingredients in XANAX XR? Active ingredient: alprazolam Inactive ingredients: lactose, magnesium stearate, colloidal silicon dioxide, and hypromellose. In addition, the 1 mg and 3 mg tablets contain D & C yellow No. 10 and the 2 mg and 3 mg tablets contain FD&C blue No. 2. XANAX® XR is a registered trademark of UPJOHN US 2 LLC, a Viatris Company. For more information, call Viatris at 1-877-446-3679 (1-877-4-INFO-RX). Distributed by: Viatris Specialty LLC Morgantown, WV 26505 U.S.A. UPJ:MG:XNXXRT:RX1

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

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