

**ALPRAZOLAM- alprazolam tablet, orally disintegrating**  
**Actavis Pharma, Inc.**

**HIGHLIGHTS OF PRESCRIBING INFORMATION**

These highlights do not include all the information needed to use ALPRAZOLAM ORALLY DISINTEGRATING TABLETS safely and effectively. See full prescribing information for ALPRAZOLAM ORALLY DISINTEGRATING TABLETS.

ALPRAZOLAM orally disintegrating tablets, C-IV  
Initial U.S. Approval: 2005

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

*See full prescribing information for complete boxed warning.*

- The use of benzodiazepines, including alprazolam orally disintegrating tablets, exposes users to risks of abuse, misuse, and addiction. Concomitant use of benzodiazepines and opioids may result in profound sedation, respiratory depression, coma, and death. Reserve concomitant prescribing of these drugs 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 alprazolam orally disintegrating tablets, exposes users to risks of abuse, misuse, and addiction, which can lead to overdose or death. Before prescribing alprazolam orally disintegrating tablets and throughout treatment, assess each patient's risk for abuse, misuse, and addiction (5.2).
- Abrupt discontinuation or rapid dosage reduction of alprazolam orally disintegrating tablets 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 alprazolam orally disintegrating tablets or reduce the dosage (2.3, 5.3).

**INDICATIONS AND USAGE**

Alprazolam orally disintegrating tablets are a benzodiazepine indicated for:

- The treatment of generalized anxiety disorder (1.1). The efficacy of alprazolam was demonstrated in 5 short-term, placebo-controlled trials. (14).
- The treatment of panic disorder, with or without agoraphobia (1.2).

The efficacy of alprazolam in the treatment of panic disorder was established in 2 short-term, placebo-controlled trials (14).

**DOSAGE AND ADMINISTRATION**

Indication	Recommended Dose
Anxiety Disorder (2.1)	Initial: 0.25 mg to 0.5 mg given three times daily. Maximum: 4 mg per day given in divided doses.
Panic Disorder (2.2)	Initial: 0.5 mg given three times daily. Maximum: Doses up to 10 mg per day may be required to achieve a successful response.

- With dry hands, place the tablet on top of the tongue where it will disintegrate and be swallowed with saliva (2.5).
- Depending on response, the dose may be increased to achieve a maximum therapeutic effect, at intervals of 3 to 4 days (2.1, 2.2).
- Use the lowest possible effective dose.
- Periodically reassess the need for continued treatment (2.1).
- In general, benzodiazepines should be prescribed for short periods (2). Discontinuation of treatment or dose reduction should be gradual and under close physician supervision. Decrease the dosage by no more than 0.5 mg per day every 3 days. Some patients may require an even slower dosage reduction (2.1, 2.2).
- Dosing in elderly: the starting dose is 0.25 mg, given two or three times daily (2.4).
- Severe hepatic impairment: the starting dose is 0.25 mg, given two or three times daily (2.4).

**DOSAGE FORMS AND STRENGTHS**

0.25 mg, 0.5 mg, 1 mg, or 2 mg scored orally disintegrating tablets (3).

**CONTRAINDICATIONS**

- Acute narrow angle glaucoma. Alprazolam can exacerbate narrow angle closure (4).
- Concomitant Use with potent CYP3A inhibitors (e.g., ketoconazole and itraconazole). Can increase the serum concentration of alprazolam (4).

**WARNINGS AND PRECAUTIONS**

- **Suicide:** As with other psychotropic medications, use precautions with respect to administration of the drug and size of the prescription, especially in patients who are severely depressed or in patients where there is reason to expect concealed suicidal ideation or plans (5.4).
- **Status Epilepticus and Seizure:** can occur during discontinuation of alprazolam (5.5).
- **Fetal Harm:** Benzodiazepines can cause fetal harm when administered to pregnant women (5.6).
- **CNS Depression and Impaired Cognitive and Motor Performance:** caution patients against engaging in hazardous occupations or activities requiring complete mental alertness, until they are reasonably certain that alprazolam treatment does not affect them adversely. Caution patients about the use of alcohol and other CNS depressant drugs during treatment with alprazolam (5.7).
- **Interdose anxiety symptoms:** can occur at prescribed maintenance doses. Consider dividing the

daily dose into more frequent administrations (5.10).

- **Patients with Concomitant Illness:** In the elderly or debilitated patients, the smallest effective dose is recommended to preclude the development of ataxia or oversedation. There have been rare reports of death in patients with severe pulmonary disease shortly after the initiation of treatment with alprazolam (5.12).

#### ADVERSE REACTIONS

- *Anxiety Disorder:* The most common adverse reactions (greater than or equal to 5% and ~twice the rate of placebo) were sedation, and hypotension.
- *Panic Disorder:* The most common adverse reactions included sedation, impaired coordination, dysarthria, and increased libido (6.1).

**To report SUSPECTED ADVERSE REACTIONS, contact Teva at 1-888-838-2872 or FDA at 1-800-FDA-1088 or [www.fda.gov/medwatch](http://www.fda.gov/medwatch).**

#### DRUG INTERACTIONS

- Alprazolam produces additive CNS depressant effects when coadministered with other psychotropic medications, anticonvulsants, antihistaminics, alcohol and other drugs that produce CNS depression (7.1).
- The formulation requires an acidic environment to dissolve; therefore, drugs or diseases that cause dry mouth or raise stomach pH may slow disintegration or dissolution, resulting in decreased absorption (7.2).
- Drugs which inhibit the hydroxylation catalyzed by cytochrome P450 3A (CYP3A) metabolic pathway can decrease the clearance of alprazolam and increase the serum concentration (7.4).

#### USE IN SPECIFIC POPULATIONS

- *Teratogenic Effects:* Pregnancy Category D. Alprazolam can cause fetal harm (8.1).
- *Nonteratogenic Effects:* A neonate born to a mother who is treated with alprazolam may be at risk for withdrawal, flaccidity, and respiratory problems (8.1).
- *Nursing Mothers:* Chronic administration of diazepam to nursing mothers has been reported to cause their infants to become lethargic and to lose weight (8.3).
- *Geriatric Use:* The elderly exhibit higher plasma concentrations due to reduced clearance, compared with a younger population receiving the same doses (8.5).
- *Pediatric Use:* Safety and effectiveness of alprazolam in individuals below 18 years of age have not been established (8.4).

See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.

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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 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 [see *Warnings and Precautions (5.1)*, *Drug Interactions (7.1)*].**
- **The use of benzodiazepines, including Alprazolam orally disintegrating tablets, 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 Alprazolam orally disintegrating tablets 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 Alprazolam orally disintegrating tablets, 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 Alprazolam orally disintegrating tablets 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 Alprazolam orally disintegrating tablets or reduce the dosage [see *Dosage and Administration (2.3)* and *Warnings and Precautions (5.3)*].**

## **1 INDICATIONS AND USAGE**

### **1.1 Generalized Anxiety Disorder**

Alprazolam orally disintegrating tablets, USP are indicated for the treatment of generalized anxiety disorder.

The efficacy of alprazolam in the treatment of generalized anxiety disorder was demonstrated in 5 short-term, placebo-controlled trials [see *Clinical Studies (14.1)*].

### **1.2 Panic Disorder**

Alprazolam orally disintegrating tablets, USP are also indicated for the treatment of panic disorder, with or without agoraphobia.

The efficacy of alprazolam in the treatment of panic disorder was established in 2 short-term, placebo-controlled trials [see *Clinical Studies (14.2)*].

Demonstrations of the effectiveness of alprazolam by systematic clinical study are limited to 4 months in duration for generalized anxiety disorder and 4 to 10 weeks duration for panic disorder; however, patients with panic disorder have been treated on an open basis for up to 8 months without apparent loss of benefit. The physician should periodically reassess the usefulness of the drug for the individual patient.

## **2 DOSAGE AND ADMINISTRATION**

Dosage should be individualized for maximum beneficial effect. While the usual daily dosages given below will meet the needs of most patients, there will be some who require doses greater than 4 mg per day. In such cases, the dosage should be increased cautiously to avoid adverse reactions. In general, benzodiazepines should be prescribed for short periods. Reevaluate the need for continued therapy before extending the treatment period.

### **2.1 Generalized Anxiety Disorder**

Initiate treatment with a dose of 0.25 mg to 0.5 mg three times daily. The dose may be increased to achieve a maximum therapeutic effect, at intervals of 3 to 4 days, to a maximum daily dose of 4 mg, given in divided doses. Use the lowest possible effective dose, and periodically reassess the need for continued treatment. The risk of

dependence can increase with dose and duration of treatment.

## **2.2 Panic Disorder**

The successful treatment of many panic disorder patients has required the use of alprazolam at doses greater than 4 mg daily. In controlled trials conducted to establish the efficacy of alprazolam in panic disorder, doses in the range of 1 mg to 10 mg daily were used. The mean dosage employed was approximately 5 mg to 6 mg daily. Among the approximately 1700 patients participating in the panic disorder development program, about 300 received alprazolam in dosages of greater than 7 mg per day, including approximately 100 patients who received maximum dosages of greater than 9 mg per day. Occasional patients required as much as 10 mg a day to achieve a successful response.

### Dose Titration

Initiate treatment with a dose of 0.5 mg three times daily. Depending on the response, the dose may be increased at intervals of 3 to 4 days in increments of no more than 1 mg per day. Slower titration to the dose levels greater than 4 mg per day may be advisable to allow full expression of the pharmacodynamic effect of alprazolam. To lessen the possibility of interdose symptoms, the times of administration should be distributed as evenly as possible throughout the waking hours, (i.e., administered three or four times daily).

Generally, therapy should be initiated at a low dose to minimize the risk of adverse responses in patients especially sensitive to the drug. The dose should be advanced until an acceptable therapeutic response (i.e., a substantial reduction in or total elimination of panic attacks) is achieved, intolerance occurs, or the maximum recommended dose is attained.

### Dose Maintenance

For patients receiving doses greater than 4 mg per day, periodically reassess treatment and consider a reduction of dosage. In a controlled postmarketing dose-response study, patients treated with doses of alprazolam greater than 4 mg per day for 3 months were able to taper to 50% of their total daily maintenance dose without apparent loss of clinical benefit. Because of the danger of withdrawal, avoid abrupt discontinuation of treatment [see *Warnings and Precautions (5.3), Drug Abuse and Dependence (9.3)*].

The necessary duration of treatment for panic disorder patients responding to alprazolam is unknown. After a period of extended freedom from 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.

## **2.3 Discontinuation or Dosage Reduction of Alprazolam Orally Disintegrating Tablets**

To reduce the risk of withdrawal reactions, use a gradual taper to discontinue Alprazolam orally disintegrating tablets 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) and Drug Abuse and Dependence (9.3)*].

In a controlled postmarketing discontinuation study of panic disorder patients which compared this recommended taper schedule with a slower taper schedule, there was no difference between the groups in the proportion of patients who tapered and completely discontinued treatment with alprazolam; however, the slower schedule was associated with a reduction in symptoms associated with a withdrawal syndrome. Reduce the dose 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.

## **2.4 Dosing in Special Populations**

In elderly patients, in patients with advanced liver disease, or in patients with debilitating disease (e.g., severe pulmonary disease), the usual starting dose is 0.25 mg, given two or three times daily. This may be gradually increased if needed and tolerated. The elderly may be especially sensitive to the effects of benzodiazepines. If adverse reactions occur at the recommended starting dose, the dose may be lowered.

## **2.5 Instructions to be Given to Patients for Use/Handling Alprazolam Orally Disintegrating Tablets**

Just prior to administration, with dry hands, remove the tablet from the bottle.

Immediately place the alprazolam orally disintegrating tablet on top of the tongue where it will disintegrate and be swallowed with saliva. Administration with liquid is not necessary.

Discard any cotton that was included in the bottle and reseal the bottle tightly to prevent introducing moisture that might cause the tablets to disintegrate.

### **3 DOSAGE FORMS AND STRENGTHS**

0.25 mg, 0.5 mg, 1 mg, and 2 mg scored orally disintegrating tablets.

### **4 CONTRAINDICATIONS**

Alprazolam orally disintegrating tablets are contraindicated in patients with acute narrow angle glaucoma. Alprazolam orally disintegrating tablets can exacerbate narrow angle closure. Alprazolam orally disintegrating tablets may be used in patients with open angle glaucoma who are receiving appropriate therapy.

Alprazolam orally disintegrating tablets are contraindicated in patients treated with potent CYP3A4 inhibitors (e.g., ketoconazole and itraconazole), because these medications significantly impair the oxidative metabolism mediated by cytochrome P450 3A (CYP3A) and can increase alprazolam exposures [see *Clinical Pharmacology (12.3)*, *Warnings and Precautions (5.8)*, and *Drug Interactions (7.4)*].

### **5 WARNINGS AND PRECAUTIONS**

#### **5.1 Risks from Concomitant Use with Opioids**

Concomitant use of benzodiazepines, including alprazolam, 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 alprazolam 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 alprazolam than indicated in the absence of an opioid and titrate based on clinical response. If an opioid is initiated in a patient already taking alprazolam, 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 alprazolam 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 Alprazolam orally disintegrating tablets, 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 Alprazolam orally disintegrating tablets and throughout treatment, assess each patient's risk for abuse, misuse, and addiction (e.g., using a standardized screening tool). Use of alprazolam orally disintegrating tablets, particularly in patients at elevated risk, necessitates counseling about the risks and proper use of alprazolam orally disintegrating tablets 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 Alprazolam orally disintegrating tablets 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 Alprazolam orally disintegrating tablets, lead to clinically significant physical dependence. Abrupt discontinuation or rapid dosage reduction of Alprazolam orally disintegrating tablets 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 alprazolam. These include a spectrum of withdrawal symptoms; the most important is seizure [see *Drug Abuse and Dependence (9.3)*]. 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 per day and for long periods (more than 12 weeks). However, in a controlled postmarketing discontinuation study of panic disorder patients, 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 alprazolam greater than 4 mg per day had more difficulty tapering to zero dose than those treated with less than 4 mg per day.

#### *The importance of dose and the risks of Alprazolam as a treatment for panic disorder*

Because the management of panic disorder often requires the use of average daily doses of alprazolam above 4 mg, the risk of dependence among panic disorder patients may be higher than that among those treated for less severe anxiety. Experience in randomized placebo-controlled discontinuation studies of patients with panic disorder showed a high rate of rebound and withdrawal symptoms in patients treated with alprazolam compared to placebo-treated patients.

Relapse or return of illness was defined as a return of symptoms characteristic of panic disorder (primarily panic attacks) to levels approximately equal to those seen at baseline before active treatment was initiated. Rebound refers to a return of symptoms of panic disorder to a level substantially greater in frequency, or more severe in intensity than seen at baseline. Withdrawal symptoms were identified as those which were generally not characteristic of panic disorder and which occurred for the first time more frequently during discontinuation than at baseline.

In a controlled clinical trial in which 63 patients were randomized to alprazolam 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.

In two controlled trials of 6 to 8 weeks duration where the ability of patients to discontinue medication was measured, 71% to 93% of patients treated with alprazolam tapered completely off therapy compared to 89% to 96% of placebo-treated patients. In a controlled postmarketing discontinuation study of panic disorder patients, the duration of treatment (3 months compared to 6 months) had no effect on the ability of patients to taper to zero dose.

Seizures attributable to alprazolam were seen after drug discontinuance or dose reduction in 8 of 1980 patients with panic disorder or in patients participating in clinical trials where doses of alprazolam greater than 4 mg/day for over 3 months were permitted. Five of these cases clearly occurred during abrupt dose reduction, or discontinuation from daily doses of 2 mg to 10 mg. Three cases occurred in situations where there was not a clear relationship to abrupt dose reduction or discontinuation. In one instance, seizure occurred after discontinuation from a single dose of 1 mg after tapering at a rate of 1 mg every 3 days from 6 mg daily. In two other instances, the relationship to taper is indeterminate; in both of these cases the patients had been receiving doses of 3 mg daily prior to seizure. The duration of use in the above 8 cases ranged from 4 to 22 weeks. There have been occasional voluntary reports of patients developing seizures while apparently tapering gradually from alprazolam. The risk of

seizure seems to be greatest 24 to 72 hours after discontinuation [see Dosage and Administration (2)].

To discontinue treatment in patients taking alprazolam, the dosage should be reduced gradually. Decrease the daily dosage of alprazolam by no more than 0.5 mg every three days [see Dosage and Administration (2.3)]. Some patients may benefit from an even slower dosage reduction. In a controlled postmarketing discontinuation study of panic disorder patients which compared this 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.

#### **5.4 Suicide and Overdose**

As with other psychotropic medications, the usual precautions with respect to administration of the drug and size of the prescription are indicated for severely depressed patients or those in whom there is reason to expect concealed suicidal ideation or plans. Panic disorder has been associated with primary and secondary major depressive disorders and increased reports of suicide among untreated patients.

#### **5.5 Status Epilepticus**

Withdrawal seizures have been reported in association with the discontinuation of alprazolam. In most cases, only a single seizure was reported; however, multiple seizures and status epilepticus were reported as well.

#### **5.6 Risk of Fetal Harm**

Benzodiazepines can potentially cause fetal harm when administered to pregnant women. If alprazolam is used during pregnancy, or if the patient becomes pregnant while taking this drug, the patient should be apprised of the potential hazard to the fetus. Because of experience with other members of the benzodiazepine class, alprazolam is assumed to be capable of causing an increased risk of congenital abnormalities when administered to a pregnant woman during the first trimester. Because use of these drugs is rarely a matter of urgency, their use during the first trimester should almost always be avoided. The possibility that a woman of childbearing potential may be pregnant at the time of institution of therapy should be considered. Patients should be advised that if they become pregnant during therapy or intend to become pregnant they should communicate with their physicians about the desirability of discontinuing the drug.

#### **5.7 CNS Depression and Impaired Performance**

Because alprazolam has CNS depressant effects and has the potential to impair judgment, cognition, and motor performance, caution patients against engaging in hazardous occupations or activities requiring complete mental alertness such as operating machinery or driving a motor vehicle, until they are reasonably certain that alprazolam treatment does not affect them adversely. Caution patients about the simultaneous ingestion of alcohol and other CNS depressant drugs during treatment with alprazolam.

#### **5.8 Mania**

Episodes of hypomania and mania have been reported in association with the use of alprazolam in patients with depression.

#### **5.9 Alprazolam 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. Consequently, alprazolam should be avoided in patients receiving potent inhibitors of CYP3A. With drugs inhibiting CYP3A to a lesser but still significant degree, alprazolam should be used only with caution and consideration of appropriate dosage reduction. For some drugs, an interaction with alprazolam has been quantified with clinical data; for other drugs, interactions are predicted from *in vitro* data and/or experience with similar drugs in the same pharmacologic class.

The following are examples of drugs known to inhibit the metabolism of alprazolam and/or related benzodiazepines, presumably through inhibition of CYP3A.

##### Potent CYP3A Inhibitors

Azole antifungal agents - Ketoconazole and itraconazole are potent CYP3A inhibitors and have been shown *in vivo* to increase plasma alprazolam concentrations 3.98 fold and



2.70 fold, respectively. The coadministration of alprazolam with these agents is not recommended. Other azole-type antifungal agents should also be considered potent CYP3A inhibitors and the coadministration of alprazolam with them is not recommended [see *CONTRAINDICATIONS (4)*].

#### Drugs demonstrated to be CYP3A inhibitors on the basis of clinical studies involving alprazolam

Consider dose reduction of alprazolam during coadministration with the following drugs:

- Nefazodone - Coadministration of nefazodone increased alprazolam concentration two-fold.
- Fluvoxamine - Coadministration of fluvoxamine approximately doubled the maximum plasma concentration of alprazolam, decreased clearance by 49%, increased half-life by 71%, and decreased measured psychomotor performance.
- Cimetidine - Coadministration of cimetidine increased the maximum plasma concentration of alprazolam by 86%, decreased clearance by 42%, and increased half-life by 16%.

#### Other drugs possibly affecting alprazolam metabolism

Other drugs possibly affect alprazolam metabolism by inhibition of CYP3A [see *Drug Interactions (7.6)*].

### **5.10 Interdose Symptoms**

Early morning anxiety and emergence of anxiety symptoms between doses of alprazolam have been reported in patients with panic disorder taking prescribed maintenance doses of alprazolam. 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. In these situations, it is recommended that the same total daily dose be given divided as more frequent administrations [see *Dosage and Administration (2)*].

### **5.11 Uricosuric Effect**

Alprazolam has a weak uricosuric effect. Although other medications with weak uricosuric effect have been reported to cause acute renal failure, there have been no reported instances of acute renal failure attributable to therapy with alprazolam.

### **5.12 Use in Patients with Concomitant Illness**

It is recommended that the dosage be limited to the smallest effective dose to preclude the development of ataxia or oversedation which may be a particular problem in elderly or debilitated patients [see *Dosage and Administration (2)*]. The usual precautions in treating patients with impaired renal, hepatic or pulmonary function should be observed. There have been rare reports of death in patients with severe pulmonary disease shortly after the initiation of treatment with alprazolam. A decreased systemic alprazolam elimination rate (e.g., increased plasma half-life) has been observed in both alcoholic liver disease patients and obese patients receiving alprazolam [see *Clinical Pharmacology (12)*].

## **6 ADVERSE REACTIONS**

### **6.1 Clinical Trial Experience**

The most commonly reported (greater than or equal to 5% and ~ twice the rate of placebo) adverse reactions with alprazolam treatment are: sedation, impaired coordination, dysarthria, and increased libido.

The data cited in the two tables below are estimates of adverse reactions occurring in patients who participated in clinical trials under the following conditions: relatively short duration (four weeks) placebo-controlled clinical studies with dosages up to 4 mg per day of alprazolam (for the management of anxiety disorders or for the short-term relief of the symptoms of anxiety) and short-term (up to ten weeks) placebo-controlled clinical studies with dosages up to 10 mg per day of alprazolam in patients with panic disorder, with or without agoraphobia.

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.

Comparison of the cited figures, however, can provide the prescriber with some basis

for estimating the relative contributions of drug and non-drug factors to the adverse reaction incidence in the population studied. Even this use must be approached cautiously, as a drug may relieve a symptom in one patient but induce it in others. (For example, an anxiolytic drug may relieve dry mouth [a symptom of anxiety] in some subjects but induce dry mouth in others.)

**Table 1: Adverse Reactions Reported in Placebo-Controlled Trials of Alprazolam in Generalized Anxiety Disorder (>2% and at a rate greater than placebo)**

<b>GENERALIZED ANXIETY DISORDER</b>		
<b>Body System/Adverse Reaction</b>	<b>Treatment-Emergent Symptom Incidence<sup>a</sup></b>	
	<b>ALPRAZOLAM (%) N = 565</b>	<b>PLACEBO (%) N = 505</b>
<b>Central Nervous System</b>		
Sedation	41	22
Lightheadedness	21	19
Dizziness	2	1
Akathisia	2	1
<b>Gastrointestinal</b>		
Dry Mouth	15	13
Increased Salivation	4	2
<b>Cardiovascular</b>		
Hypotension	5	2
<b>Cutaneous</b>		
Dermatitis/Allergy	4	3

<sup>a</sup> Events reported by 1% or more of alprazolam patients are included.

In addition to the relatively common (i.e., greater than 1%) adverse reactions described in the table above, 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 Reported in Placebo-Controlled Trials of Alprazolam in Panic Disorder (>2% and greater than placebo)**

<b>PANIC DISORDER</b>		
<b>Body System/Adverse Reaction</b>	<b>Treatment-Emergent Symptom Incidence<sup>a</sup></b>	
	<b>ALPRAZOLAM (%) N = 1388</b>	<b>PLACEBO (%) N = 1231</b>
<b>Central Nervous System</b>		
Sedation	77	43
Fatigue and Tiredness	49	42
Impaired Coordination	40	18
Irritability	33	30
Memory Impairment	33	22
Cognitive Disorder	29	21
Dysarthria	23	6
Decreased Libido	14	8
Confusional State	10	8
Increased Libido	8	4
Change in Libido (Not Specified)	7	6
Disinhibition	3	2

Talkativeness	2	1
Derealization	2	1
<b>Gastrointestinal</b>		
Constipation	26	15
Increased Salivation	6	4
<b>Cutaneous</b>		
Rash	11	8
<b>Other</b>		
Increased Appetite	33	23
Decreased Appetite	28	24
Weight Gain	27	18
Weight Loss	23	17
Micturition Difficulties	12	9
Menstrual Disorders	10	9
Sexual Dysfunction	7	4
Incontinence	2	1

<sup>a</sup> Events reported by 1% or more of alprazolam patients are included.

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

Panic disorder has been associated with primary and secondary major depressive disorders and increased reports of suicide among untreated patients [see *Warnings and Precautions*, (5.4)].

## 6.2 Postmarketing Experience

The following adverse reactions have been identified during postmarketing use of alprazolam. 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. Reported events include: liver enzyme elevations, hepatitis, hepatic failure, Stevens-Johnson syndrome, hyperprolactinemia, gynecomastia, and galactorrhoea.

## 7 DRUG INTERACTIONS

### 7.1 Use with Other CNS Depressants

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 GABAA 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. Limit dosage and duration of concomitant use of benzodiazepines and opioids, and monitor patients closely for respiratory depression and sedation.

If alprazolam orally disintegrating tablets are coadministered with other psychotropic agents or anticonvulsant drugs, carefully consider the pharmacology of the agents to be employed, particularly with compounds which might potentiate the action of benzodiazepines. The benzodiazepines, including alprazolam, produce additive CNS depressant effects when coadministered with other psychotropic medications, anticonvulsants, antihistaminics, alcohol and other drugs which themselves produce CNS depression.

### 7.2 Drugs Effecting Salivary Flow and Stomach pH

Because alprazolam orally disintegrating tablets disintegrate in the presence of saliva, and the formulation requires an acidic environment to dissolve, concomitant drugs or diseases that cause dry mouth or raise stomach pH might slow disintegration or dissolution, resulting in slowed or decreased absorption.

### 7.3 Use with Imipramine and Desipramine

The steady state plasma concentrations of imipramine and desipramine can increase by approximately 30% and 20%, respectively, when administered concomitantly with alprazolam in doses up to 4 mg per day. The clinical significance of these changes is unknown.

### 7.4 Drugs that Inhibit Alprazolam Metabolism via Cytochrome P450 3A

The initial step in alprazolam metabolism is hydroxylation catalyzed by cytochrome P450 3A (CYP3A). Drugs which inhibit this metabolic pathway can have a profound effect on the clearance of alprazolam [see *Contraindications (4) and Warnings and Precautions (5.8)*].

### 7.5 Drugs Demonstrated to be CYP3A Inhibitors of Possible Clinical Significance on the Basis of Clinical Studies Involving Alprazolam

*Use caution during coadministration of Alprazolam and the following drugs:*

Fluoxetine - Coadministration of fluoxetine with alprazolam increased the maximum plasma concentration of alprazolam by 46%, decreased clearance by 21%, increased half-life by 17%, and decreased measured psychomotor performance.

Propoxyphene - Coadministration of propoxyphene decreased the maximum plasma concentration of alprazolam by 6%, decreased clearance by 38%, and increased half-life by 58%.

Oral Contraceptives - Coadministration of oral contraceptives increased the maximum plasma concentration of alprazolam by 18%, decreased clearance by 22%, and increased half-life by 29%.

### 7.6 Drugs and Other Substances Demonstrated to be CYP3A Inhibitors on the Basis of Clinical Studies Involving Benzodiazepines Metabolized Similarly to Alprazolam or on the Basis of *In Vitro* Studies with Alprazolam or Other Benzodiazepines

Use caution during the coadministration of Alprazolam and the following:

Available data from clinical studies of benzodiazepines other than alprazolam suggest a possible drug interaction between alprazolam and the following: diltiazem, isoniazid, macrolide antibiotics such as erythromycin and clarithromycin, and grapefruit juice. Data from *in vitro* studies of alprazolam suggest a possible drug interaction between alprazolam and the following: sertraline and paroxetine. However, data from an *in vivo* drug interaction study involving a single dose of alprazolam 1 mg and steady state doses of sertraline (50 mg to 150 mg per day) did not reveal any clinically significant changes in the pharmacokinetics of alprazolam. Data from *in vitro* studies of benzodiazepines other than alprazolam suggest a possible drug interaction between benzodiazepines and the following: ergotamine, cyclosporine, amiodarone, nicardipine, and nifedipine [see *Warnings and Precautions (5.8)*].

### 7.7 Inducers of CYP3A

Carbamazepine can increase alprazolam metabolism and therefore can decrease plasma levels of alprazolam.

## 8 USE IN SPECIFIC POPULATIONS

### 8.1 Pregnancy

#### Teratogenic Effects

Benzodiazepines can potentially cause fetal harm when administered to a pregnant woman. The possibility that a woman of childbearing potential may be pregnant at the time of institution of therapy should be considered. If alprazolam is used during pregnancy, or if the patient becomes pregnant while taking this drug, the patient should be apprised of the potential hazard to the fetus. Because of experience with other members of the benzodiazepine class, alprazolam is assumed to be capable of causing an increased risk of congenital abnormalities when administered to a pregnant woman during the first trimester. Because use of these drugs is rarely a matter of urgency, their use during the first trimester should almost always be avoided [see *Warnings and Precautions (5.6)*].

*Nonteratogenic Effects:* It should be considered that the child born of a mother who is receiving benzodiazepines may be at some risk for withdrawal symptoms from the drug during the postnatal period. Also, neonatal flaccidity and respiratory problems have been

reported in children born of mothers who have been receiving benzodiazepines.

## **8.2 Labor and Delivery**

The potential effect of alprazolam in labor and delivery in humans has not been studied. However, perinatal complications have been reported in neonates exposed to benzodiazepines late in pregnancy. The findings are suggestive of excess benzodiazepine exposure or withdrawal phenomena.

## **8.3 Nursing Mothers**

Benzodiazepines are excreted in human milk. It should be assumed that alprazolam is excreted in human milk. Chronic administration of diazepam to nursing mothers has been reported to cause their infants to become lethargic and to lose weight. Because of the potential for serious adverse reactions in nursing infants from alprazolam, a decision should be made whether to discontinue nursing or to discontinue the drug, taking into account the importance of the drug to the mother. As a general rule, nursing should not be undertaken by mothers who must use alprazolam.

## **8.4 Pediatric Use**

Safety and effectiveness of alprazolam in individuals below 18 years of age have not been studied.

## **8.5 Geriatric Use**

The elderly may be more sensitive to the effects of benzodiazepines. They exhibit higher plasma alprazolam concentrations due to reduced clearance of the drug, compared with a younger population receiving the same doses. The smallest effective dose of alprazolam should be used in the elderly to preclude the development of ataxia and oversedation [see *Clinical Pharmacology (12)* and *Dosage and Administration (2)*].

Changes in the absorption, distribution, metabolism and excretion of benzodiazepines have been demonstrated in geriatric patients. A mean half-life of alprazolam of 16.3 hours has been observed in healthy elderly subjects (range: 9.0 to 26.9 hours, n=16) compared to 11.0 hours (range: 6.3 to 15.8 hours, n=16) in healthy adult subjects.

# **9 DRUG ABUSE AND DEPENDENCE**

## **9.1 Controlled Substance**

Alprazolam is a Schedule IV controlled substance.

## **9.2 Abuse**

Alprazolam orally disintegrating tablet 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 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

Alprazolam orally disintegrating tablets 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 alprazolam orally disintegrating tablets or reduce the dosage [see *Dosage and Administration* (2.3) and *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 alprazolam orally disintegrating tablets 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 alprazolam orally disintegrating tablets may develop; however, little tolerance develops to the amnestic reactions and other cognitive impairments caused by benzodiazepines.

## **10 OVERDOSAGE**

### **10.1 Human Clinical Experience**

Manifestations of alprazolam overdose include somnolence, confusion, impaired coordination, diminished reflexes and coma. Death has been reported in association with overdoses of alprazolam by itself, as it has with other benzodiazepines. In addition, fatalities have been reported in patients who have overdosed with a combination of a single benzodiazepine, including alprazolam, and alcohol; alcohol levels seen in some of these patients have been lower than those usually associated with alcohol-induced fatality.

### **10.2 Management of Overdose**

For the most up to date information on management of alprazolam overdose, contact a certified poison center in your area (1-800-222-1222 or [www.poisson.org](http://www.poisson.org)). In case of an overdose, provide supportive care, including close medical supervision and monitoring. Treatment should consist of those general measures employed in the management of overdose with any drug. Consider the possibility of multiple drug overdose. Ensure an adequate airway, oxygenation, and ventilation. Monitor cardiac rhythm and vital signs. Use supportive and symptomatic measures.

Flumazenil, a specific benzodiazepine receptor antagonist, is indicated for the complete or partial reversal of the sedative effects of benzodiazepines and may be used in situations when an overdose with a benzodiazepine is known or suspected. Prior to the administration of flumazenil, necessary measures should be instituted to secure airway, ventilation and intravenous access. Flumazenil is intended as an adjunct to, not as a substitute for, proper management of benzodiazepine overdose. Patients treated with flumazenil should be monitored for re-sedation, respiratory depression, and other residual benzodiazepine effects for an appropriate period after treatment. **The prescriber should be aware of a risk of seizure in association with flumazenil treatment, particularly in long-term benzodiazepine users and in cyclic antidepressant overdose.** The complete flumazenil package insert including CONTRAINDICATIONS, WARNINGS and PRECAUTIONS should be consulted prior to use.

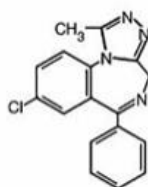
## 11 DESCRIPTION

Alprazolam orally disintegrating tablets, USP contain alprazolam, USP which is a triazolo analog of the 1,4 benzodiazepine class of central nervous system-active compounds.

Alprazolam orally disintegrating tablets, USP are an orally administered formulation of alprazolam, USP which rapidly disintegrates on the tongue and does not require water to aid dissolution or swallowing.

The chemical name of alprazolam, USP is 8-Chloro-1-methyl-6-phenyl-4H-s-triazolo [4,3- $\alpha$ ] [1,4] benzodiazepine. The molecular formula is  $C_{17}H_{13}ClN_4$  and the molecular weight is 308.76.

The structural formula is:



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

### 11.1 Alprazolam Orally Disintegrating Tablets

Each orally disintegrating tablet contains either 0.25 mg, 0.5 mg, 1 mg, or 2 mg of alprazolam, USP and the following inactive ingredients: corn starch, croscopovidone, magnesium stearate, mannitol, methacrylic acid copolymer (type C), microcrystalline cellulose, natural and artificial orange flavor, polysorbate 80, sodium lauryl sulfate, sucralose. In addition, the 1 mg and 2 mg tablets contain ferric oxide (yellow 10 synthetic yellow iron oxide).

Product meets USP Dissolution Test 2.

Product meets USP Disintegration Test 2.

## 12 CLINICAL PHARMACOLOGY

### 12.1 Mechanism of Action

The exact mechanism of action of alprazolam is unknown. Benzodiazepines bind to gamma aminobutyric acid (GABA) receptors in the brain and enhance GABA-mediated synaptic inhibition; such actions may be responsible for the efficacy of alprazolam in anxiety disorder and panic disorder.

### 12.3 Pharmacokinetics

#### Absorption

Following oral administration, alprazolam is readily absorbed. The peak plasma concentration is reached about 1.5 to 2 hours after administration of alprazolam given with or without water. When taken with water, mean  $T_{max}$  occurs about 15 minutes earlier than when taken without water with no change in  $C_{max}$  or AUC. Plasma levels are proportional to the dose given; over the dose range of 0.5 mg to 3 mg, peak levels of 8 to 37 ng/mL are observed. The elimination half-life of alprazolam is approximately 12.5

hours (range 7.9 to 19.2 hours) after administration of alprazolam in healthy adults.

Food decreased the mean  $C_{max}$  by about 25% and increased the mean  $T_{max}$  by 2 hours from 2.2 hours to 4.4 hours after the ingestion of a high-fat meal. Food did not affect the extent of absorption (AUC) or the elimination half-life.

#### Distribution

*In vitro*, alprazolam is bound (80 percent) to human serum protein. Serum albumin accounts for the majority of the binding.

#### Metabolism/Elimination

Alprazolam is extensively metabolized in humans, primarily by cytochrome P450 3A4 (CYP3A4), to two major metabolites in the plasma: 4-hydroxyalprazolam and  $\alpha$ -hydroxyalprazolam. A benzophenone derived from alprazolam is also found in humans. Their half-lives appear to be similar to that of alprazolam. The plasma concentrations of 4-hydroxyalprazolam and  $\alpha$ -hydroxyalprazolam relative to unchanged alprazolam concentration were always less than 4%. 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  $\alpha$ -hydroxyalprazolam. Such low concentrations and the lesser potencies of 4-hydroxyalprazolam and  $\alpha$ -hydroxyalprazolam suggest that they are unlikely to contribute much to the pharmacological effects of alprazolam. The benzophenone metabolite is essentially inactive.

Alprazolam and its metabolites are excreted primarily in the urine.

#### Special Populations

Changes in the absorption, distribution, metabolism and excretion of benzodiazepines have been reported in a variety of disease states including alcoholism, impaired hepatic function and impaired renal function. Changes have also been demonstrated in geriatric patients. A mean half-life of alprazolam of 16.3 hours has been observed in healthy elderly subjects (range: 9.0 to 26.9 hours, n=16) compared to 11.0 hours (range: 6.3 to 15.8 hours, n=16) in healthy adult subjects. In patients with alcoholic liver disease, the half-life of alprazolam ranged between 5.8 and 65.3 hours (mean: 19.7 hours, n=17) as compared to between 6.3 and 26.9 hours (mean=11.4 hours, n=17) in healthy subjects. In an obese group of subjects, the half-life of alprazolam ranged between 9.9 and 40.4 hours (mean=21.8 hours, n=12) as compared to between 6.3 and 15.8 hours (mean=10.6 hours, n=12) in healthy subjects.

Because of its similarity to other benzodiazepines, it is assumed that alprazolam undergoes transplacental passage and that it is excreted in human milk.

Race - Maximal concentrations ( $C_{max}$ ) and half-life of alprazolam are approximately 15% and 25% higher in Asians compared to Caucasians.

Pediatrics - The pharmacokinetics of alprazolam in pediatric patients have not been studied.

Gender - Gender has no effect on the pharmacokinetics of alprazolam.

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

#### Drug-Drug Interactions

Alprazolam is primarily eliminated by metabolism via cytochrome P450 3A (CYP3A). Most of the interactions that have been documented with alprazolam are with drugs that inhibit or induce CYP3A.

Compounds that are potent inhibitors of CYP3A would be expected to increase plasma alprazolam concentrations. Drug products that have been studied *in vivo*, along with their effect on increasing alprazolam AUC, are as follows: ketoconazole, 3.98 fold; itraconazole, 2.70 fold; nefazodone, 1.98 fold; fluvoxamine, 1.96 fold; and erythromycin, 1.61 fold [see *Contraindications (4)*, *Warnings and Precautions (5.8)*, and *Drug Interactions (7)*].

CYP3A inducers would be expected to decrease alprazolam concentrations and this has been observed *in vivo*. The oral clearance of alprazolam (given in a 0.8 mg single dose) was increased from  $0.90 \pm 0.21$  mL/min/kg to  $2.13 \pm 0.54$  mL/min/kg and the elimination  $t_{1/2}$  was shortened (from  $17.1 \pm 4.9$  to  $7.7 \pm 1.7$  h) following administration of 300 mg/day carbamazepine for 10 days [see *Drug Interactions (7)*]. However, the carbamazepine dose used in this study was fairly low compared to the recommended doses (1000 mg to 1200 mg/day); the effect at usual carbamazepine doses is unknown.

The ability of alprazolam to induce or inhibit human hepatic enzyme systems has not



been determined. However, this is not a property of benzodiazepines in general. Further, alprazolam did not affect the prothrombin or plasma warfarin levels in male volunteers administered sodium warfarin orally.

## **13 NONCLINICAL TOXICOLOGY**

### **13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility**

No evidence of carcinogenic potential was observed during 2-year bioassay studies of alprazolam in rats at doses up to 30 mg/kg per day (30 times the maximum recommended human dose of 10 mg per day on a mg/m<sup>2</sup> basis) and in mice at doses up to 10 mg/kg per day (5 times the maximum recommended human dose on a mg/m<sup>2</sup>).

Alprazolam also was not mutagenic *in vitro* in the DNA Damage/Alkaline Elution Assay or the Ames Assay, and was negative in the rat micronucleus test.

Alprazolam produced no impairment of fertility in rats at doses up to 5 mg/kg per day, which is 5 times the maximum recommended human dose of 10 mg per day on a mg/m<sup>2</sup> basis.

### **13.2 Animal Toxicology and/or Pharmacology**

When rats were treated with oral alprazolam doses of 3, 10, and 30 mg/kg per day (3 to 30 times the maximum recommended human dose of 10 mg per day on a mg/m<sup>2</sup> basis) 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 Anxiety Disorders**

The efficacy of alprazolam in the treatment of anxiety symptoms was demonstrated in five short-term (4 weeks), randomized, double-blind, placebo-controlled studies. The studies included patients with a diagnosis of anxiety or anxiety with associated depressive symptomatology. Alprazolam doses ranged from 0.5 mg to 4 mg per day. The mean daily doses ranged from 1.6 mg to 2.4 mg. Treatment with alprazolam was statistically significantly superior to placebo treatment, as measured by the following psychometric instruments: Hamilton Anxiety Rating Scale, Physician's Global Impressions, Target Symptoms, Patient's Global Impressions and Self-Rating Symptom Scale.


### **14.2 Panic Disorder**


The efficacy of alprazolam in the treatment of panic disorder was demonstrated in three short-term (up to 10 weeks), randomized, double-blind, placebo-controlled studies. Patients in the studies had diagnoses corresponding closely to DSM-III-R criteria for panic disorder (with or without agoraphobia).


The average dose of alprazolam was 5 mg to 6 mg per day in two of the studies, and the doses of alprazolam were fixed at 2 mg and 6 mg per day in the third study. In all three studies, alprazolam 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 two of the three studies, alprazolam 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 were improved on alprazolam during short-term treatment in one of these trials was continued on an open basis up to 8 months, without apparent loss of benefit.


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

Alprazolam orally disintegrating tablets, USP are supplied as follows:

0.25 mg - Each white to off-white, round tablet imprinted with  on one side and 019 and bisect on the other side contains 0.25 mg of Alprazolam, USP. Tablets are supplied in bottles of 100 (NDC 0228-4019-11).

0.5 mg - Each white to off-white, round tablet imprinted with  on one side and 022 and bisect on the other side contains 0.5 mg of Alprazolam, USP. Tablets are supplied in bottles of 100 (NDC 0228-4022-11).

1 mg - Each yellow, round tablet imprinted with  on one side and 024 and bisect on the other side contains 1 mg of Alprazolam, USP. Tablets are supplied in bottles of 100 (NDC 0228-4024-11).

2 mg - Each yellow, round tablet imprinted with  on one side and 025 and bisect on the other side contains 2 mg of Alprazolam, USP. Tablets are supplied in bottles of 100 (NDC 0228-4025-11).

### **Storage**

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

Dispense in tight, light-resistant containers as defined in the USP.

Keep container tightly closed.

## **17 PATIENT COUNSELING INFORMATION**

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

### **Risks from Concomitant Use with Opioids**

Inform patients and caregivers that potentially fatal additive effects may occur if alprazolam is used with opioids and not to use such drugs concomitantly unless supervised by a health care provider [see *Warnings and Precautions (5.1)*, *Drug Interactions (7.1)*].

### **Abuse, Misuse, and Addiction**

Inform patients that the use of Alprazolam orally disintegrating tablets, 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)* and *Drug Abuse and Dependence (9.2)*].

### **Withdrawal Reactions**

Inform patients that the continued use of Alprazolam orally disintegrating tablets may lead to clinically significant physical dependence and that abrupt discontinuation or rapid dosage reduction of Alprazolam orally disintegrating tablets 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 alprazolam orally disintegrating tablets may require a slow taper [see *Warnings and Precautions (5.3)* and *Drug Abuse and Dependence (9.3)*].

### **Use/Handling Alprazolam Orally Disintegrating Tablets**

To assure safe and effective use of benzodiazepines, all patients prescribed alprazolam orally disintegrating tablets should be provided with the following guidance.

1. Do not remove Alprazolam orally disintegrating tablets from the bottle until just prior to dosing. With dry hands, open the bottle, remove the tablet, and immediately place on the tongue to dissolve and be swallowed with the saliva. The tablet may also be taken with water.
2. Discard any cotton that was included in the bottle and reseal the bottle tightly to prevent introducing moisture that might cause the tablets to disintegrate.
3. Store at room temperature in a dry place. Protect from moisture.
4. Inform your physician about any alcohol consumption and medicine you are taking now, including medication you may buy without a prescription. Alcohol should generally not be used during treatment with benzodiazepines.
5. Alprazolam orally disintegrating tablets are not recommended for use in pregnancy. Therefore, inform your physician if you are pregnant, if you are planning to have a child, or if you become pregnant while you are taking this medication.
6. Inform your physician if you are nursing.
7. Until you experience how this medication affects you, do not drive a car or operate potentially dangerous machinery, etc.
8. Do not increase the dose even if you think the medication “does not work anymore” without consulting your physician. Benzodiazepines, even after relatively short-term use at the doses recommended, may produce emotional and/or physical dependence.
9. Do not stop taking this medication abruptly or decrease the dose without consulting

your physician, since withdrawal symptoms can occur even after relatively short-term use at the doses recommended. You should follow a gradual dosage tapering schedule.

Dispense with Medication Guide available at: [www.tevausa.com/medguides](http://www.tevausa.com/medguides)

Manufactured For:  
**Teva Pharmaceuticals**  
Parsippany, NJ 07054

Rev. D 9/2021

## MEDICATION GUIDE

Dispense with Medication Guide available at: [www.tevausa.com/medguides](http://www.tevausa.com/medguides)

### **Alprazolam (al pra' zoe lam) Orally Disintegrating Tablet (ODT), C-IV**

#### **• What is the most important information I should know about alprazolam ODT?**

**Alprazolam ODT 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 alprazolam ODT with opioids affects you.

- **Risk of abuse, misuse, and addiction.** There is a risk of abuse, misuse, and addiction with benzodiazepines, including alprazolam ODT, which can lead to overdose 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 Alprazolam ODT.** 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 Alprazolam ODT exactly as prescribed by your healthcare provider.**
  - **Take Alprazolam ODT exactly as your healthcare provider prescribed.**
  - Do not share your Alprazolam ODT with other people.
  - Keep Alprazolam ODT in a safe place and away from children.
- **Physical dependence and withdrawal reactions.** Alprazolam ODT can cause physical dependence and withdrawal reactions, especially if you continue to take Alprazolam ODT for several days to several weeks.
  - **Do not suddenly stop taking Alprazolam ODT.** Stopping Alprazolam ODT 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 Alprazolam ODT than prescribed or take Alprazolam ODT for longer than prescribed.

#### **What is alprazolam ODT?**

- Alprazolam ODT is a prescription medicine used to treat:
  - generalized anxiety disorder
  - panic disorder with or without fear of places and situations that might cause panic, helplessness, or embarrassment (agoraphobia)
- **Alprazolam ODT is a federal controlled substance (C-IV) because it contains alprazolam that can be abused or lead to dependence.** Keep alprazolam ODT in a safe place to prevent misuse and abuse. Selling or giving away alprazolam ODT 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 alprazolam ODT is safe and effective in children.
- It is not known if alprazolam ODT is safe and effective when to treat generalized anxiety disorder for longer than 4 months.
- It is not known if alprazolam ODT is safe and effective when used treat panic disorder for longer than 10 weeks.

**Do not take alprazolam ODT if you:**

- take an antifungal medicines including ketoconazole and itraconazole

**Before you take alprazolam ODT, 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. Alprazolam may harm your unborn baby. You and your healthcare provider should decide if you should take alprazolam ODT while you are pregnant.
- are breastfeeding or plan to breastfeed. Alprazolam passes into your breast milk and may harm your baby. Talk to your healthcare provider about the best way to feed your baby if you take alprazolam ODT. You should not breastfeed while taking alprazolam ODT.

**Tell your healthcare provider about all the medicines you take**, including prescription and over-the-counter medicines, vitamins, and herbal supplements.

Taking alprazolam ODT with certain other medicines can cause side effects or affect how well alprazolam ODT or the other medicines work. Do not start or stop other medicines without talking to your healthcare provider.

**How should I take alprazolam ODT?**

- Take alprazolam ODT exactly as your healthcare provider tells you to take it. Your healthcare provider will tell you how much alprazolam ODT to take and when to take it.
- Do not remove alprazolam ODT from the bottle until you are ready to take it. With dry hands, remove the alprazolam ODT, and immediately place on your tongue to dissolve and be swallowed with your saliva. The tablet may also be taken with water.
- If you take too much alprazolam ODT, call your healthcare provider or go to the nearest hospital emergency room right away.

**What are the possible side effects of alprazolam ODT?****Alprazolam ODT may cause serious side effects, including:**

- **See “What is the most important information I should know about alprazolam ODT?”**
- **Seizures.** Stopping alprazolam ODT can cause seizures and seizures that will not stop (status epilepticus).
- **Mania.** Alprazolam ODT may cause an increase in activity and talking (hypomania and mania) in people who have depression.
- **Alprazolam ODT 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 Alprazolam ODT affects you.
  - Do not drink alcohol or take other medicines that may make you sleepy or dizzy while taking Alprazolam ODT without first talking to your healthcare provider. When taken with alcohol or other medicines that cause sleepiness or dizziness, Alprazolam ODT may make your sleepiness or dizziness much worse.

**The most common side effects of alprazolam ODT include:**

- |  |  |  |
|--|--|--|
| <ul style="list-style-type: none"> <li>• sedation</li> <li>• problems with coordination</li> </ul> | <ul style="list-style-type: none"> <li>• speech problems (dysarthria)</li> <li>• increased libido</li> </ul> | <ul style="list-style-type: none"> <li>• low blood pressure (hypotension)</li> </ul> |
|--|--|--|

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

- Store alprazolam ODT at room temperature between 68°F to 77°F (20°C to 25°C).
- Keep alprazolam ODT in a tightly closed container and keep dry.
- **Keep alprazolam ODT and all medicines out of the reach of children.**

**General information about the safe and effective use of alprazolam ODT.**

Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. Do not use alprazolam ODT for a condition for which it was not prescribed. Do not give alprazolam ODT 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 alprazolam ODT that is written for health professionals. For more information call Teva at 1-888-838-2872.

**What are the ingredients in alprazolam ODT?**

**Active ingredient:** alprazolam

**Inactive ingredients:** corn starch, crospovidone, magnesium stearate, mannitol, methacrylic acid copolymer (type C), microcrystalline cellulose, natural and artificial orange flavor, polysorbate 80, sodium lauryl sulfate, sucralose. In addition, the 1 mg and 2 mg tablets contain ferric oxide (yellow 10 synthetic yellow iron oxide).

Manufactured For: **Teva Pharmaceuticals**, Parsippany, NJ 07054

**PRINCIPAL DISPLAY PANEL**

NDC 0228-4019-11

Alprazolam Orally Disintegrating Tablets, USP CIV

0.25 mg

PHARMACIST: Dispense the accompanying Medication Guide to each patient.

Rx only

100 Tablets

NDC 0228-4019-11

**Alprazolam <sup>CIV</sup>**  
**Orally Disintegrating**  
**Tablets, USP**

**0.25 mg**

PHARMACIST: Dispense the accompanying Medication Guide to each patient.

Rx only  
100 Tablets

teva

GTIN 00302284019113

Print Medication Guides at:  
[www.tevausea.com/medguides](http://www.tevausea.com/medguides)

Each Orange-Flavored, Orally Disintegrating Tablet Contains:  
Alprazolam, USP ..... 0.25 mg

Usual Dosage: See package literature for prescribing information.  
Dispense in a tight, light-resistant container as defined in the USP.

Store at 20° to 25°C (68° to 77°F); excursions permitted between 15° to 30°C (59° to 86°F) [see USP Controlled Room Temperature]. Protect from moisture.  
KEEP OUT OF REACH OF CHILDREN.

Manufactured For:  
Teva Pharmaceuticals  
Parsippany, NJ 07054  
Rev. A 9/2021

LOT/EXP. BELOW

N 3 0228-4019-11 3

52-0017

Serialization Coding Area

**PRINCIPAL DISPLAY PANEL**

NDC 0228-4022-11

Alprazolam Orally Disintegrating Tablets, USP CIV

0.5 mg

PHARMACIST: Dispense the accompanying Medication Guide to each patient.

Rx only

100 Tablets

NDC 0228-4022-11

**Alprazolam <sup>CIV</sup>**  
**Orally Disintegrating**  
**Tablets, USP**

**0.5 mg**

PHARMACIST: Dispense the accompanying Medication Guide to each patient.

Rx only  
100 Tablets

teva

GTIN 00302284022113

Print Medication Guides at:  
[www.tevausea.com/medguides](http://www.tevausea.com/medguides)

Each Orange-Flavored, Orally Disintegrating Tablet Contains:  
Alprazolam, USP ..... 0.5 mg

Usual Dosage: See package literature for prescribing information.  
Dispense in a tight, light-resistant container as defined in the USP.

Store at 20° to 25°C (68° to 77°F); excursions permitted between 15° to 30°C (59° to 86°F) [see USP Controlled Room Temperature]. Protect from moisture.  
KEEP OUT OF REACH OF CHILDREN.

Manufactured For:  
Teva Pharmaceuticals  
Parsippany, NJ 07054  
Rev. A 9/2021

LOT/EXP. BELOW

N 3 0228-4022-11 3

52-0018

Serialization Coding Area

**PRINCIPAL DISPLAY PANEL**

NDC 0228-4024-11

Alprazolam Orally Disintegrating Tablets, USP CIV

1 mg

PHARMACIST: Dispense the accompanying Medication Guide to each patient.

Rx only

100 Tablets

NDC 0228-4024-11

**Alprazolam <sup>Ⓒ</sup><sub>IV</sub> Orally Disintegrating Tablets, USP**

**1 mg**

PHARMACIST: Dispense the accompanying Medication Guide to each patient.

Rx only  
100 Tablets

teva

GTIN 00302284024117

Print Medication Guides at: [www.tevausea.com/medguides](http://www.tevausea.com/medguides)

Each Orange-Flavored, Orally Disintegrating Tablet Contains: Alprazolam, USP ..... 1 mg

Usual Dosage: See package literature for prescribing information.

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

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

KEEP OUT OF REACH OF CHILDREN.

Manufactured For: Teva Pharmaceuticals Parsippany, NJ 07054 Rev. A 9/2021

LOT/EXP. BELOW



3 0 2 2 8 - 4 0 2 4 - 1 1 7

52-0019

Serialization Coding Area

**PRINCIPAL DISPLAY PANEL**

NDC 0228-4025-11

Alprazolam Orally Disintegrating Tablets, USP CIV

2 mg

PHARMACIST: Dispense the accompanying Medication Guide to each patient.

Rx only

100 Tablets

NDC 0228-4025-11

**Alprazolam <sup>Ⓒ</sup><sub>IV</sub> Orally Disintegrating Tablets, USP**

**2 mg**

PHARMACIST: Dispense the accompanying Medication Guide to each patient.

Rx only  
100 Tablets

teva

GTIN 00302284025114

Print Medication Guides at: [www.tevausea.com/medguides](http://www.tevausea.com/medguides)

Each Orange-Flavored, Orally Disintegrating Tablet Contains: Alprazolam, USP ..... 2 mg

Usual Dosage: See package literature for prescribing information.

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

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

KEEP OUT OF REACH OF CHILDREN.

Manufactured For: Teva Pharmaceuticals Parsippany, NJ 07054 Rev. A 9/2021

LOT/EXP. BELOW



3 0 2 2 8 - 4 0 2 5 - 1 1 4

52-0020

Serialization Coding Area

**ALPRAZOLAM**

alprazolam tablet, orally disintegrating

**Product Information**

<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:0228-4019
<b>Route of Administration</b>	ORAL	<b>DEA Schedule</b>	CIV

**Active Ingredient/Active Moiety**

Ingredient Name	Basis of Strength	Strength
ALPRAZOLAM (UNII: YU55MQ3IZY) (ALPRAZOLAM - UNII:YU55MQ3IZY)	ALPRAZOLAM	0.25 mg

**Inactive Ingredients**

Ingredient Name	Strength
CROSPVIDONE (15 MPAS AT 5%) (UNII: 68401960MK)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	
MANNITOL (UNII: 3OWL53L36A)	
METHACRYLIC ACID AND ETHYL ACRYLATE COPOLYMER (UNII: NX76LV5T8J)	
MICROCRYSTALLINE CELLULOSE (UNII: OP1R32D61U)	
POLYSORBATE 80 (UNII: 6OZP39ZG8H)	

<b>SODIUM LAURYL SULFATE</b> (UNII: 368GB5141J)			
<b>SUCRALOSE</b> (UNII: 96K6UQ3ZD4)			
<b>STARCH, CORN</b> (UNII: O8232NY35J)			
<b>Product Characteristics</b>			
<b>Color</b>	white (white to off-white)	<b>Score</b>	2 pieces
<b>Shape</b>	ROUND	<b>Size</b>	6mm
<b>Flavor</b>	ORANGE (natural and artificial)	<b>Imprint Code</b>	019
<b>Contains</b>			
<b>Packaging</b>			
<b>#</b>	<b>Item Code</b>	<b>Package Description</b>	<b>Marketing Start Date</b>
1	NDC:0228-4019-11	100 in 1 BOTTLE; Type 0: Not a Combination Product	03/17/2010
<b>Marketing Information</b>			
<b>Marketing Category</b>	<b>Application Number or Monograph Citation</b>	<b>Marketing Start Date</b>	<b>Marketing End Date</b>
ANDA	ANDA078561	03/17/2010	

<b>ALPRAZOLAM</b>			
alprazolam tablet, orally disintegrating			
<b>Product Information</b>			
<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:0228-4022
<b>Route of Administration</b>	ORAL	<b>DEA Schedule</b>	CIV
<b>Active Ingredient/Active Moiety</b>			
	<b>Ingredient Name</b>	<b>Basis of Strength</b>	<b>Strength</b>
	ALPRAZOLAM (UNII: YU55MQ3IZY) (ALPRAZOLAM - UNII:YU55MQ3IZY)	ALPRAZOLAM	0.5 mg
<b>Inactive Ingredients</b>			
	<b>Ingredient Name</b>	<b>Strength</b>	
	STARCH, CORN (UNII: O8232NY35J)		
	CROSPVIDONE (15 MPAS AT 5%) (UNII: 68401960MK)		
	MAGNESIUM STEARATE (UNII: 70097M6I30)		
	MANNITOL (UNII: 3OWL53L36A)		
	METHACRYLIC ACID AND ETHYL ACRYLATE COPOLYMER (UNII: NX76LV5T8J)		
	MICROCRYSTALLINE CELLULOSE (UNII: OP1R32D61U)		
	POLYSORBATE 80 (UNII: 6OZP39ZG8H)		
	SODIUM LAURYL SULFATE (UNII: 368GB5141J)		
	SUCRALOSE (UNII: 96K6UQ3ZD4)		
<b>Product Characteristics</b>			
<b>Color</b>	white (white to off-white)	<b>Score</b>	2 pieces
<b>Shape</b>	ROUND	<b>Size</b>	8mm
<b>Flavor</b>	ORANGE (natural and artificial)	<b>Imprint Code</b>	022
<b>Contains</b>			
<b>Packaging</b>			
<b>#</b>	<b>Item Code</b>	<b>Package Description</b>	<b>Marketing Start Date</b>
1	NDC:0228-4022-11	100 in 1 BOTTLE; Type 0: Not a Combination Product	03/17/2010
<b>Marketing Information</b>			
<b>Marketing</b>	<b>Application Number or Monograph</b>	<b>Marketing Start</b>	<b>Marketing End</b>

Category	Citation	Date	Date
ANDA	ANDA078561	03/17/2010	

## ALPRAZOLAM

alprazolam tablet, orally disintegrating

### Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:0228-4024
Route of Administration	ORAL	DEA Schedule	CIV

### Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
ALPRAZOLAM (UNII: YU55MQ3IZY) (ALPRAZOLAM - UNII:YU55MQ3IZY)	ALPRAZOLAM	1 mg

### Inactive Ingredients

Ingredient Name	Strength
STARCH, CORN (UNII: 08232NY3SJ)	
CROSPVIDONE (15 MPAS AT 5%) (UNII: 68401960MK)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	
MANNITOL (UNII: 3OVL53L36A)	
METHACRYLIC ACID AND ETHYL ACRYLATE COPOLYMER (UNII: NX76LV5T8J)	
MICROCRYSTALLINE CELLULOSE (UNII: OP1R32D61U)	
POLYSORBATE 80 (UNII: 6OZP39ZG8H)	
SODIUM LAURYL SULFATE (UNII: 368GB5141J)	
SUCRALOSE (UNII: 96K6UQ3ZD4)	
FERRIC OXIDE YELLOW (UNII: EX438O2MRT)	

### Product Characteristics

Color	yellow	Score	2 pieces
Shape	ROUND	Size	8mm
Flavor	ORANGE (natural and artificial)	Imprint Code	024
Contains			

### Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0228-4024-11	100 in 1 BOTTLE; Type 0: Not a Combination Product	03/17/2010	

### Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA078561	03/17/2010	

## ALPRAZOLAM

alprazolam tablet, orally disintegrating

### Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:0228-4025
Route of Administration	ORAL	DEA Schedule	CIV

### Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
ALPRAZOLAM (UNII: YU55MQ3IZY) (ALPRAZOLAM - UNII:YU55MQ3IZY)	ALPRAZOLAM	2 mg

### Inactive Ingredients



Ingredient Name	Strength
<b>STARCH, CORN</b> (UNII: 08232NY3SJ)	
<b>CROSPVIDONE (15 MPAS AT 5%)</b> (UNII: 68401960MK)	
<b>MAGNESIUM STEARATE</b> (UNII: 70097M6I30)	
<b>MANNITOL</b> (UNII: 3OWL53L36A)	
<b>METHACRYLIC ACID AND ETHYL ACRYLATE COPOLYMER</b> (UNII: NX76LV5T8J)	
<b>MICROCRYSTALLINE CELLULOSE</b> (UNII: OP1R32D61U)	
<b>POLYSORBATE 80</b> (UNII: 6OZP39ZG8H)	
<b>SODIUM LAURYL SULFATE</b> (UNII: 368GB5141J)	
<b>SUCRALOSE</b> (UNII: 96K6UQ3ZD4)	
<b>FERRIC OXIDE YELLOW</b> (UNII: EX438O2MRT)	

#### Product Characteristics

<b>Color</b>	yellow	<b>Score</b>	2 pieces
<b>Shape</b>	ROUND	<b>Size</b>	10mm
<b>Flavor</b>	ORANGE (natural and artificial)	<b>Imprint Code</b>	025
<b>Contains</b>			

#### Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0228-4025-11	100 in 1 BOTTLE; Type 0: Not a Combination Product	03/17/2010	

#### Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA078561	03/17/2010	

**Labeler** - Actavis Pharma, Inc. (119723554)

Revised: 11/2021

Actavis Pharma, Inc.