

Additionally, for anxiety disorders the cited figures can provide the prescriber with an indication as to the frequency with which physician intervention (e.g., increased surveillance, decreased dosage or discontinuation of drug therapy) may be necessary because of the untoward clinical event.

ANXIETY DISORDERS

	Treatment-Emergent Symptom Incidence [†]		Incidence of Intervention Because of Symptom
	ALPRAZOLAM TABLETS	PLACEBO	
Number of Patients	565	505	565
% of Patients Reporting:			
Central Nervous System			
Drowsiness	41.0	21.6	15.1
Light-headedness	20.8	19.3	1.2
Depression	13.9	18.1	2.4
Headache	12.9	19.6	1.1
Confusion	9.9	10.0	0.9
Insomnia	8.9	18.4	1.3
Nervousness	4.1	10.3	1.1
Syncope	3.1	4.0	*
Dizziness	1.8	0.8	2.5
Akathisia	1.6	1.2	*
Tiredness/Sleepiness	*	*	1.8
Gastrointestinal			
Dry Mouth	14.7	13.3	0.7
Constipation	10.4	11.4	0.9
Diarrhea	10.1	10.3	1.2
Nausea/Vomiting	9.6	12.8	1.7
Increased Salivation	4.2	2.4	*
Cardiovascular			
Tachycardia/Palpitations	7.7	15.6	0.4
Hypotension	4.7	2.2	*
Sensory			
Blurred Vision	6.2	6.2	0.4
Musculoskeletal			
Rigidity	4.2	5.3	*
Tremor	4.0	8.8	0.4
Cutaneous			
Dermatitis/Allergy	3.8	3.1	0.6
Other			
Nasal Congestion	7.3	9.3	*
Weight Gain	2.7	2.7	*
Weight Loss	2.3	3.0	*

* None reported

† Events reported by 1% or more of alprazolam tablet patients are included.

In addition to the relatively common (i.e., greater than 1%) untoward events enumerated in the table above, the following adverse events 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.

PANIC DISORDERS

	Treatment-Emergent Symptom Incidence [†]		Incidence of Intervention Because of Symptom
	ALPRAZOLAM TABLETS	PLACEBO	
Number of Patients	1388	1231	
% of Patients Reporting:			
Central Nervous System			
Drowsiness	76.8	42.7	
Fatigue and Tiredness	48.5	42.3	
Impaired Coordination	40.1	17.9	
Irritability	33.1	30.1	
Memory Impairment	33.1	22.1	
Light-headedness/Dizziness	29.8	36.9	
Insomnia	29.4	41.8	
Headache	29.2	35.6	
Cognitive Disorder	28.8	20.5	
Dysarthria	23.3	6.3	
Anxiety	16.6	24.9	
Abnormal Involuntary Movement	14.8	21.0	
Decreased Libido	14.4	8.0	
Depression	13.8	14.0	
Confusional State	10.4	8.2	
Muscular Twitching	7.9	11.8	
Increased Libido	7.7	4.1	
Change in Libido (Not Specified)	7.1	5.6	
Weakness	7.1	8.4	
Muscle Tone Disorders	6.3	7.5	
Syncope	3.8	4.8	
Akathisia	3.0	4.3	
Agitation	2.9	2.6	
Disinhibition	2.7	1.5	
Paresthesia	2.4	3.2	
Talkativeness	2.2	1.0	
Vasomotor Disturbances	2.0	2.6	
Derealization	1.9	1.2	
Dream Abnormalities	1.8	1.5	
Fear	1.4	1.0	
Feeling Warm	1.3	0.5	
Gastrointestinal			
Decreased Salivation	32.8	34.2	
Constipation	26.2	15.4	
Nausea/Vomiting	22.0	31.8	
Diarrhea	20.6	22.8	
Abdominal Distress	18.3	21.5	
Increased Salivation	5.6	4.4	
Cardio-Respiratory			
Nasal Congestion	17.4	16.5	
Tachycardia	15.4	26.8	
Chest Pain	10.6	18.1	
Hyperventilation	9.7	14.5	
Upper Respiratory Infection	4.3	3.7	
Sensory			
Blurred Vision	21.0	21.4	
Tinnitus	6.6	10.4	
Musculoskeletal			
Muscular Cramps	2.4	2.4	
Muscle Stiffness	2.2	3.3	
Cutaneous			
Sweating	15.1	23.5	
Rash	10.8	8.1	
Other			
Increased Appetite	32.7	22.8	
Decreased Appetite	27.8	24.1	
Weight Gain	27.2	17.9	
Weight Loss	22.6	16.5	
Micturition Difficulties	12.2	8.6	
Menstrual Disorders	10.4	8.7	
Sexual Dysfunction	7.4	3.7	
Edema	4.9	5.6	
Incontinence	1.5	0.6	
Infection	1.3	1.7	

* Events reported by 1% or more of alprazolam tablet patients are included.

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

There have also been reports of withdrawal seizures upon rapid decrease or abrupt discontinuation of alprazolam tablets (see **WARNINGS**).

To discontinue treatment in patients taking alprazolam tablets, the dosage should be reduced slowly in keeping with good medical practice. It is suggested that the daily dosage of alprazolam tablets be

decreased by no more than 0.5 mg every three days (see **DOSAGE AND ADMINISTRATION**). 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.

Panic disorder has been associated with primary and secondary major depressive disorders and increased reports of suicide among untreated patients. Therefore, the same precaution must be exercised when using doses of alprazolam tablets greater than 4 mg/day in treating patients with panic disorders as is exercised with the use of any psychotropic drug in treating depressed patients or those in whom there is reason to expect concealed suicidal ideation or plans.

As with all benzodiazepines, 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 post-traumatic stress disorder.

Laboratory analyses were performed on patients participating in the clinical program for alprazolam tablets. The following incidences of abnormalities shown below were observed in patients receiving alprazolam tablets and in patients in the corresponding placebo group. Few of these abnormalities were considered to be of physiological significance.

	ALPRAZOLAM TABLETS		PLACEBO	
	Low	High	Low	High
Hematology				
Hematocrit	*	*	*	*
Hemoglobin	*	*	*	*
Total WBC Count	1.4	2.3	1.0	2.0
Neutrophil Count	2.3	3.0	4.2	1.7
Lymphocyte Count	5.5	7.4	5.4	9.5
Monocyte Count	5.3	2.8	6.4	*
Eosinophil Count	3.2	9.5	3.3	7.2
Basophil Count	*	*	*	*
Urinalysis				
Albumin	—	*	—	*
Sugar	—	*	—	*
RBC/HPF	—	3.4	—	5.0
WBC/HPF	—	25.7	—	25.9
Blood Chemistry				
Creatinine	2.2	1.9	3.5	1.0
Bilirubin	*	1.6	*	*
SGOT	*	3.2	1.0	1.8
Alkaline Phosphatase	*	1.7	*	1.8

* Less than 1%

When treatment with alprazolam tablets is protracted, periodic blood counts, urinalysis and blood chemistry analyses are advisable.

Minor changes in EEG patterns, usually low-voltage fast activity have been observed in patients during therapy with alprazolam tablets and are of no known significance.

Post Introduction Reports:

Various adverse drug reactions have been reported in association with the use of alprazolam tablets since market introduction. The majority of these reactions were reported through the medical event voluntary reporting system. Because of the spontaneous nature of the reporting of medical events and the lack of controls, a causal relationship to the use of alprazolam tablets cannot be readily determined. Reported events include: liver enzyme elevations, hepatitis, hepatic failure, Stevens-Johnson syndrome, hyperprolactinemia, gynecostasia and galactorrhea.

DRUG ABUSE AND DEPENDENCE**Physical and Psychological Dependence:**

Withdrawal symptoms similar in character to those noted with sedative/hypnotics and alcohol have occurred following discontinuation of benzodiazepines, including alprazolam tablets. The symptoms can range from mild dysphoria and insomnia to a major syndrome that may include abdominal and muscle cramps, vomiting, sweating, tremors and convulsions. Distinguishing between withdrawal emergent signs and symptoms and the recurrence of illness is often difficult in patients undergoing dose reduction. The long term strategy for treatment of these phenomena will vary with their cause and the therapeutic goal. When necessary, immediate management of withdrawal symptoms requires re-institution of treatment at doses of alprazolam tablets sufficient to suppress symptoms. There have been reports of failure of other benzodiazepines to fully suppress these withdrawal symptoms. These failures have been attributed to incomplete cross-tolerance but may also reflect the use of an inadequate dosing regimen of the substituted benzodiazepine or the effects of concomitant medications.

While it is difficult to distinguish withdrawal and recurrence for certain patients, the time course and the nature of the symptoms may be helpful. A withdrawal syndrome typically includes the occurrence of new symptoms, tends to appear toward the end of taper or shortly after discontinuation, and will decrease with time. In recurring panic disorder, symptoms similar to those observed before treatment may recur either early or late, and they will persist.

While the severity and incidence of withdrawal phenomena appear to be related to dose and duration of treatment, withdrawal symptoms, including seizures, have been reported after only brief therapy with alprazolam tablets at doses within the recommended range for the treatment of anxiety (e.g., 0.75 to 4 mg/day). Signs and symptoms of withdrawal are often more prominent after rapid decrease of dosage or abrupt discontinuation. The risk of withdrawal seizures may be increased at doses above 4 mg/day (see **WARNINGS**).

Patients, especially individuals with a history of seizures or epilepsy, should not be abruptly discontinued from any CNS depressant agent, including alprazolam tablets. It is recommended that all patients on alprazolam tablets who require a dosage reduction be gradually tapered under close supervision (see **WARNINGS** and **DOSAGE AND ADMINISTRATION**).

Psychological dependence is a risk with all benzodiazepines, including alprazolam tablets. The risk of psychological dependence may also be increased at doses greater than 4 mg/day and with longer term use, and this risk is further increased in patients with a history of alcohol or drug abuse. Some patients have experienced considerable difficulty in tapering and discontinuing from alprazolam tablets, especially those receiving higher doses for extended periods. Addiction-prone individuals should be under careful surveillance when receiving alprazolam tablets. As with all anxiolytics, repeat prescriptions should be limited to those who are under medical supervision.

Controlled Substance Class:

Alprazolam is a controlled substance under the Controlled Substances Act by the Drug Enforcement Administration and alprazolam tablets have been assigned to Schedule IV.

OVERDOSAGE

Manifestations of alprazolam overdosage 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.

The acute oral LD₅₀ in rats is 331-2171 mg/kg. Other experiments in animals have indicated that cardiopulmonary collapse can occur following massive intravenous doses of alprazolam (over 195 mg/kg; 975 times the maximum recommended daily human dose of 10 mg/day). Animals could be resuscitated with positive mechanical ventilation and the intravenous infusion of norepinephrine bitartrate.

Animal experiments have suggested that forced diuresis or hemodialysis are probably of little value in treating overdosage.

General Treatment of Overdose:

Overdosage reports with alprazolam tablets are limited. As in all cases of drug overdosage, respiration, pulse rate, and blood pressure should be monitored. General supportive measures should be employed, along with immediate gastric lavage. Intravenous fluids should be administered and an adequate airway maintained. If hypotension occurs, it may be combated by the use of vasopressors. Dialysis is of limited value. As with the management of intentional overdosing with any drug, it should be borne in mind that multiple agents may have been ingested.

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.

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/day. In such cases, dosage should be increased cautiously to avoid adverse effects.

Anxiety disorders and transient symptoms of anxiety:

Treatment for patients with anxiety should be initiated with a dose of 0.25 to 0.5 mg given 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. The lowest possible effective dose should be employed and the need for continued treatment reassessed frequently. The risk of dependence may increase with dose and duration of treatment.

In elderly patients, in patients with advanced liver disease or in patients with debilitating 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 side effects occur at the recommended starting dose, the dose may be lowered.

In all patients, dosage should be reduced gradually when discontinuing therapy or when decreasing the daily dosage. Although there are no systematically collected data to support a specific discontinuation schedule, it is suggested that the daily dosage be decreased by no more than 0.5 mg every three days. Some patients may require an even slower dosage reduction.

Panic disorder:

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

Generally, therapy should be initiated at a low dose to minimize the risk of adverse responses in patients especially sensitive to the drug. Thereafter, the dose can be increased at intervals equal to at least 5 times the elimination half-life (about 11 hours in young patients, about 16 hours in elderly patients). Longer titration intervals should probably be used because the maximum therapeutic response may not occur until after the plasma levels achieve steady state. 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. For patients receiving doses greater than 4 mg/day, periodic reassessment and consideration of dosage reduction is advised. In a controlled postmarketing dose-response study, patients treated with doses of alprazolam tablets greater than 4 mg/day for three months were able to taper to 50% of their total maintenance dose without apparent loss of clinical benefit. Because of the danger of withdrawal, abrupt discontinuation of treatment should be avoided (see **WARNINGS, PRECAUTIONS, DRUG ABUSE AND DEPENDENCE**).

The following regimen is one that follows the principles outlined above:

Treatment may be initiated 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/day may be advisable to allow full expression of the pharmacodynamic effect of alprazolam tablets. To lessen the possibility of interdose symptoms, the times of administration should be distributed as evenly as possible throughout the waking hours, that is, on a three or four times per day schedule.

The necessary duration of treatment for panic disorder patients responding to alprazolam tablets 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.

In any case, reduction of dose must be undertaken under close supervision and must be gradual. If significant withdrawal symptoms develop, the previous dosing schedule should be reinstated and, only after stabilization, should a less rapid schedule of discontinuation be attempted. 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. It is suggested that the dose be reduced by no more than 0.5 mg every three days, with the understanding that some patients may benefit from an even more gradual discontinuation. Some patients may prove resistant to all discontinuation regimens.

HOW SUPPLIED

Alprazolam Tablets, USP are available as:

0.25 mg: White, oval, debossed "2087" over "V" on one side and scored on the reverse side, in bottles of 10, 30, 60, 90, 100, 120, 500 and 1000.

0.5 mg: Peach, oval, debossed "2088" over "V" on one side and scored on the reverse side, in bottles of 10, 30, 60, 90, 100, 120, 500 and 1000.

1 mg: Blue, oval, debossed "2089" over "V" on one side and scored on the reverse side, in bottles of 10, 30, 60, 90, 100, 120, 500 and 1000.

2 mg: White, oblong, multi-scored, beveled edged, debossed "2090" on one side and debossed "V" on the reverse side, in bottles of 10, 90, 100, 500 and 1000.

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

Keep container tightly closed.

Dispense in tight, light-resistant container.

ANIMAL STUDIES

When rats were treated with alprazolam at 3, 10, and 30 mg/kg/day (15 to 150 times the maximum recommended human dose) orally 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.

CLINICAL STUDIES**Anxiety Disorders:**

Alprazolam tablets were compared to placebo in double blind clinical studies (doses up to 4 mg/day) in patients with a diagnosis of anxiety or anxiety with associated depressive symptomatology. Alprazolam tablets were significantly better than placebo at each of the evaluation periods of these four 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.

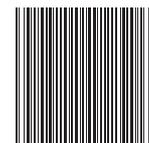
Panic Disorder:

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

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