

8.2 Labor and Delivery

The effect of tetrabenazine tablets on labor and delivery in humans is unknown.

8.3 Nursing Mothers

It is not known whether tetrabenazine or its metabolites are excreted in human milk.

Since many drugs are excreted in human milk and because of the potential for serious adverse reactions to nursing infants from tetrabenazine tablets, a decision should be made whether to discontinue nursing or to discontinue tetrabenazine tablets, taking into account the importance of the drug to the mother.

8.4 Pediatric Use

The safety and efficacy of tetrabenazine tablets in pediatric patients have not been established.

8.5 Geriatric Use

The pharmacokinetics of tetrabenazine tablets and its primary metabolites have not been formally studied in geriatric subjects.

8.6 Hepatic Impairment

Because the safety and efficacy of the increased exposure to tetrabenazine tablets and other circulating metabolites are unknown, it is not possible to adjust the dosage of tetrabenazine tablets in hepatic impairment to ensure safe use. The use of tetrabenazine tablets in patients with hepatic impairment is contraindicated. (see Contraindications (4), Clinical Pharmacology (2.3.3)).

8.7 Poor or Extensive CYP2D6 Metabolizers

Patients who require doses of tetrabenazine tablets greater than 50 mg per day, should be first tested and genotyped to determine if they are poor (PM) or extensive metabolizers (EM), by their ability to express the drug-metabolizing enzyme, CYP2D6. The doses of tetrabenazine tablets should be individualized accordingly to their status as either poor or extensive metabolizers. (see Contraindications (4), Use in Specific Populations (6.2), Warnings and Precautions (5.3), Clinical Pharmacology (2.3.3)).

8.8 Poor Metabolizers (PM)

Poor CYP2D6 metabolizers (PM) will have substantially higher levels of exposure to the primary metabolites (about 3-fold for α -HTBZ and 5-fold for β -HTBZ) compared to EMs. The dosage should, therefore, be adjusted according to a patient's CYP2D6 metabolizer status by limiting a single dose to a maximum of 25 mg and the recommended daily dose to not exceed a maximum of 10 mg daily in patients who are CYP2D6 PMs. (see Dosage and Administration (2.3), Warnings and Precautions (5.3), Clinical Pharmacology (2.3.3)).

Extensive Intermediate Metabolizers

In extensive (EM) or intermediate metabolizers (IMs), the dosage of tetrabenazine tablets can be titrated to a maximum single dose of 37.5 mg and a recommended maximum daily dose of 100 mg (see Dosage and Administration (2.3), Drug Interactions (7.1), Clinical Pharmacology (2.3.3)).

9 DRUG ABUSE AND DEPENDENCE

9.1 Controlled Substance

Tetrabenazine tablets are not a controlled substance.

9.2 Abuse

Clinical trials did not reveal patients developed drug seeking behaviors, though these observations were not systematic. Abuse has not been reported from the postmarketing experience to contrast with tetrabenazine tablets have been marketed.

As with any CNS-active drug, prescribers should carefully evaluate patients for a history of drug abuse and follow each patient closely, observe their behavior, and monitor for signs of abuse (such as development of tolerance, increasing dose requirements, drug-seeking behavior).

Abuse/discontinuation of tetrabenazine tablets from patients did not produce symptoms of withdrawal or a discontinuation syndrome, only symptoms of the original disease were observed to re-emerge (see Dosage and Administration (2.4)).

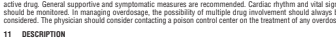
10 OVERDOSE

Three episodes of overdose occurred in the open-label trials performed in support of registration. Eight cases of overdose with tetrabenazine tablets have been reported in the literature. The dose of tetrabenazine tablets in these patients ranged from 100 mg to 1 g. Adverse reactions associated with tetrabenazine tablets overdose included acute dystonia, oculogyric crisis, nausea and vomiting, sedation, hypotension, confusion, dizziness, hallucinations, rigors, and tremor.

Treatment should consist of those general measures employed in the management of overdose with any CNS-active drug. General supportive and symptomatic measures are recommended. Cardiac rhythm and vital signs should be monitored. In managing overdose, the possibility of multiple drug involvement should always be considered. The physician should consider contacting a poison control center at the time of any overdose.

11 DESCRIPTION

Tetrabenazine tablet is a monamine depletor for cholinergic transmission. The molecular weight of tetrabenazine is 317.42. Tetrabenazine is a tetrahydro-9-hydroxybenzocyclohexanone derivative and has the following chemical name: 1,3,6,7,11-tetrahydro-12-methyl-9H-benzocyclohexanone. The empirical formula $C_{17}H_{23}NO$ is represented by the following structural formula:



Tetrabenazine is off-white to pale yellow powder that is soluble in chloroform and sparingly soluble in methanol.

Each tetrabenazine tablet contains either 12.5 or 25 mg of tetrabenazine as the active ingredient. Tetrabenazine tablets contain tetrabenazine as the active ingredient and the following inactive ingredients: lactose monohydrate, pregelatinized starch, sodium stearoyl fumarate and talc. The 25 mg strength tablet also contains ferrous oxide as an inactive ingredient.

The botanical source for Pregelatinized starch is corn starch.

Tetrabenazine tablets are supplied as yellowish-buff scored tablet containing 25 mg of tetrabenazine as a white or off-white tablet containing 12.5 mg of tetrabenazine.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

The precise mechanism by which tetrabenazine tablets exert its anti-cholinergic effects is unknown but is believed to be related to its effect as a reversible depletor of monoamines (such as dopamine, serotonin, norepinephrine, and histamine). From neurochemical studies, tetrabenazine reversibly inhibits the human vesicular monoamine transporter type 2 (VMAT2) (IC_{50} of 100 nM) resulting in decreased uptake of monoamines into synaptic vesicles and depletion of monoamine stores. Neurochemical studies have shown that tetrabenazine inhibits VMAT2, a mediator of α -HTBZ and β -HTBZ, and β -HTBZ, major circulating metabolites in humans, exhibit high in vitro binding affinity to bovine VMAT2. Tetrabenazine exhibits weak in vitro binding affinity to the dopamine D2 receptor (IC_{50} < 100 nM).

12.2 Pharmacokinetics

Oral Administration

The effect of a single 25 mg or 50 mg dose of tetrabenazine tablets on the QT interval was studied in a randomized, double-blind, placebo-controlled crossover study in healthy male and female subjects with normal sinus as a positive control. At 50 mg, tetrabenazine tablets caused an approximate 8 msec mean increase in QTc (95% CI: 5.10, 10.4 msec). Additional data suggest that inhibition of CYP2D6 in healthy subjects given a single 50 mg dose of tetrabenazine tablets does not further increase the effect on the QTc interval. Effects of higher exposure to either tetrabenazine tablets or its metabolites have not been evaluated. (see Warnings and Precautions (5.7), (7.2), Drug Interactions (7.3)).

Metabolism

Tetrabenazine or its metabolites bind to melanin-containing tissues (i.e., eye, skin, hair) in significant rates. After a single oral dose of radiolabeled tetrabenazine, radioactivity was still detected in eye and hair at 21 days post dosing. (see Warnings and Precautions (5.5)).

12.3 Pharmacokinetics

Following oral administration of tetrabenazine, the extent of absorption is at least 75%. After single oral doses ranging from 12.5 to 50 mg, plasma concentrations of tetrabenazine are generally below the limit of detection because of the rapid and extensive metabolism. α -HTBZ and β -HTBZ are metabolized principally by CYP2D6. Peak plasma concentrations (C_{max}) of α -HTBZ and β -HTBZ are reached within 1 to 1.5 hours post dosing. α -HTBZ is primarily metabolized to a major metabolite, 9-desmethyl- α -HTBZ. β -HTBZ is subsequently metabolized to another major circulating metabolite, 9-desmethyl- β -HTBZ, for which C_{50} is reached approximately 2 hours post dosing.

Food Effects

The effects of food on the bioavailability of tetrabenazine tablets were studied in subjects administered a single dose with and without food. Food had no effect on mean plasma concentrations, C_{50} , or the area under the concentration-time curve (AUC) of α -HTBZ or β -HTBZ. (see Dosage and Administration (2.1)).

Distribution

Results of PET-scan studies in humans show that radioactivity is rapidly distributed to the brain following intravenous injection of ^{14}C -labeled tetrabenazine or α -HTBZ, with the highest binding in the striatum and lowest binding in the cortex.

In the in vitro protein binding of tetrabenazine, α -HTBZ, and β -HTBZ was examined in human plasma for concentrations ranging from 50 to 200 ng/mL. Tetrabenazine binding ranged from 62% to 85%, α -HTBZ binding ranged from 60% to 68%, and β -HTBZ binding ranged from 59% to 63%.

Metabolism

After oral administration in humans, at least 19 metabolites of tetrabenazine have been identified. α -HTBZ, β -HTBZ, and 9-desmethyl- β -HTBZ, are the major circulating metabolites, and they are, subsequently, metabolized to sulfate or glucuronide conjugates. α -HTBZ and β -HTBZ are formed by carbonyl reduction that occurs mostly in the liver. α -HTBZ is O -dealkylated by a CYP450 enzyme, principally CYP2D6, with some contribution of CYP1A2 from 9-desmethyl- α -HTBZ. A major metabolite, β -HTBZ, is O -dealkylated primarily by CYP2D6 to form 9-desmethyl- β -HTBZ.

The results of in vitro studies do not suggest that tetrabenazine, α -HTBZ, or β -HTBZ are likely to result in clinically significant inhibition of CYP2D6, CYP1A2, CYP2B6, CYP2C8, CYP2C9, CYP2C19, CYP2E1, or CYP3A4. In vivo studies suggest that neither tetrabenazine nor α - or β -HTBZ metabolites are likely to result in clinically significant induction of CYP1A2, CYP3A4, CYP2B6, CYP2C8, CYP2C9, or CYP2C19.

Enzymes

Neither tetrabenazine nor its α - or β -HTBZ metabolites is likely to be a substrate or inhibitor of P-glycoprotein at clinically relevant concentrations in vivo.

No in vivo metabolism studies have been conducted to evaluate the potential of the 9-desmethyl- β -HTBZ metabolite to interact with other drugs. The activity of this metabolite relative to the parent drug is unknown.

Enzymes

After oral administration, tetrabenazine is extensively hepatically metabolized, and the metabolites are primarily rapidly eliminated. α -HTBZ, β -HTBZ, and 9-desmethyl- β -HTBZ have half-lives of 7 hours, 5 hours and 12 hours respectively. In a mass balance study in 6 healthy volunteers, approximately 75% of the dose was excreted in the urine and fecal recovery accounted for approximately 78% of the dose. Unchanged tetrabenazine has not been found in human urine. Urinary excretion of α -HTBZ or β -HTBZ accounted for less than 10% of the administered dose. Circulating metabolites, including sulfate and glucuronide conjugates of HTBZ metabolites as well as products of oxidative metabolism, account for the majority of metabolites in the urine.

Specific Population

Gender

There is no apparent effect of gender on the pharmacokinetics of α -HTBZ or β -HTBZ.

Hepatic Impairment

The disposition of tetrabenazine was compared in 12 patients with mild to moderate chronic liver impairment (Child-Pugh scores of 5 to 9) and 12 age- and gender-matched subjects with normal hepatic function who received a single 25 mg dose of tetrabenazine. In patients with hepatic impairment, tetrabenazine plasma concentrations were 7- to 100-fold higher than detectable concentrations in healthy subjects. The elimination half-life of tetrabenazine in subjects with hepatic impairment was approximately 17.2 hours. The time to peak concentrations (t_{max}) of α -HTBZ and β -HTBZ was slightly delayed in subjects with hepatic impairment compared to age-matched controls (1.75 hrs vs. 1.0 hrs), and the elimination half-lives of the α -HTBZ and β -HTBZ were prolonged to approximately 7.5 and 10.0 hours, respectively. The exposure to α -HTBZ and β -HTBZ was approximately 30 to 30% greater in patients with liver impairment than in age-matched controls. The safety and efficacy of this increased exposure to tetrabenazine in hepatic impairment to ensure safe use. Therefore, tetrabenazine tablets are contraindicated in patients with hepatic impairment. (see Contraindications (4), Use in Specific Populations (6.6)).

Renal Impairment

Pharmacokinetics of tetrabenazine tablets and its metabolites in patients who do not express the drug-metabolizing enzyme, CYP2D6, were investigated. PMs have not been phenotypically evaluated. It is likely that the exposure to α -HTBZ and β -HTBZ would be increased similar to that observed in patients taking strong CYP2D6 inhibitors (e.g. 9-rid), respectively. (see Dosage and Administration (2.3), Warnings and Precautions (5.3), Use in Specific Populations (6.7)).

Drug Interactions

CYP2D6 Inhibitors

In vitro studies indicate that α -HTBZ and β -HTBZ are substrates for CYP2D6. The effect of CYP2D6 inhibition on the pharmacokinetics of tetrabenazine and its metabolites was studied in 25 healthy subjects following a single 25 mg dose of tetrabenazine given after 10 days of administration of the strong CYP2D6 inhibitor paroxetine 20 mg daily. There was an increase in C_{50} and t_{max} of approximately 50% increase in AUC of α -HTBZ. In subjects given paroxetine prior to tetrabenazine compared to tetrabenazine given alone. For β -HTBZ, the C_{50} and AUC were increased 2.4- and 4.6-fold, respectively. In subjects given paroxetine to adjust the dosage of tetrabenazine in hepatic impairment to ensure safe use. Therefore, tetrabenazine tablets are contraindicated in patients with hepatic impairment. (see Contraindications (4), Use in Specific Populations (6.6)).

CYP2D6 Metabolizers

Although the pharmacokinetics of tetrabenazine tablets and its metabolites in patients who do not express the drug-metabolizing enzyme, CYP2D6, were investigated, PMs have not been phenotypically evaluated. It is likely that the exposure to α -HTBZ and β -HTBZ would be increased similar to that observed in patients taking strong CYP2D6 inhibitors (e.g. 9-rid), respectively. (see Dosage and Administration (2.3), Warnings and Precautions (5.3), Use in Specific Populations (6.7)).

Drug Interactions

Dopamine

Dopamine is a substrate for P-glycoprotein. A study in healthy volunteers showed that tetrabenazine tablets (25 mg twice daily for 3 days) did not affect the bioavailability of dopamine. (see Dosage and Administration (2.3), Warnings and Precautions (5.3), Drug Interactions (7.1), Use in Specific Populations (6.7)).

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenesis
No increase in tumors was observed in $p53^{-/-}$ transgenic mice treated orally with tetrabenazine at doses of 0, 5, 15, and 30 mg/kg/day for 20 weeks when compared to human equivalent 12.5 mg/kg/day dose of tetrabenazine tablets. Mice dosed with a 30 mg/kg dose of tetrabenazine produce about one sixth the levels of 9-desmethyl- β -HTBZ, a major human metabolite. Therefore, this study may not have adequately characterized the potential of tetrabenazine to be carcinogenic in people.

Mutagenesis

Tetrabenazine and metabolites α -HTBZ and β -HTBZ were negative in the in vitro bacterial reverse mutation assay. Tetrabenazine was cytotoxic in the in vitro chromosome aberration assay in Chinese hamster ovary cells in the presence of metabolic activation. α -HTBZ and β -HTBZ were cytotoxic in the in vitro chromosome aberration assay in Chinese hamster lung cells in the presence and absence of metabolic activation. In vivo micronucleus tests were conducted in male and female rats and male mice. Tetrabenazine was negative in male mice and rats but produced an equivocal response in female rats.

Because the bioavailability system used in the in vitro studies was hepatic S9 fraction prepared from rat, a species that does not metabolize tetrabenazine, does not produce 9-desmethyl- β -HTBZ, a major human metabolite, these studies may not have adequately assessed the potential of tetrabenazine to be mutagenic in humans. Furthermore, since the in vivo studies provide very low levels of this metabolite when dosed with tetrabenazine, the in vivo study may not have adequately assessed the potential of tetrabenazine to be mutagenic in humans.

Impairment of Fertility

Administration of tetrabenazine (doses of 5, 15, or 30 mg/kg/day) to female rats prior to and throughout mating, and continuing through day 7 of gestation resulted in disrupted estrous cyclicity at doses greater than 5 mg/kg/day (less than the MRHD on a mg/m² basis).

No effects on mating and fertility indices or sperm parameters (motility, count, density) were observed when males were treated orally with tetrabenazine (doses of 5, 15, or 30 mg/kg/day; up to 3 times the MRHD on a mg/m² basis) prior to and throughout mating with untreated females.

Because rats with tetrabenazine did not produce 9-desmethyl- β -HTBZ, a major human metabolite, these studies may not have adequately assessed the potential of tetrabenazine to impair fertility in humans.

14 CLINICAL STUDIES

Study 1

The efficacy of tetrabenazine tablets as a treatment for the chorea of Huntington's disease was established primarily in a randomized, double-blind, placebo-controlled multicenter trial (Study 1) conducted in ambulatory patients with a diagnosis of HD. The diagnosis of HD was based on family history, neurological exam, and genetic testing. Treatment duration was 12 weeks, including a 7-week dose titration period and a 5-week maintenance period followed by a 1-week washout. Tetrabenazine tablets were started at a dose of 12.5 mg per day, followed by upward titration at weekly intervals, to 12.5 mg per day until patients were tolerating the dose. In patients who achieved, tolerable side effects occurred, or until a maximal dose of 100 mg per day was reached.

The primary efficacy endpoint was the Total Chorea Score, an item of the Unified Huntington's Disease Rating Scale (UHDRS). On this scale, chorea is rated from 0 to 4 (with 0 representing no chorea for 7 different parts of the body). The total score ranges from 0 to 28.

Results in Figure 1. Total Chorea Scores for patients in the drug group declined by an estimated 5.0 units during Study 1 (week 11 week 12 scores versus baseline) compared to an estimated 3.0 units during Study 2 (week 11 week 12 scores versus baseline) in the placebo group. The percentage of patients achieving reductions of at least 10, 6, and 3 points from baseline to Week 12 are shown in the inset table.

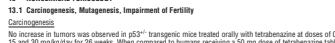


Figure 1. Mean \pm s.e.m. Changes from Baseline to Total Chorea Score in 84 HD Patients Treated with Tetrabenazine Tablets (n=54) or Placebo (n=30)

Figure 2 illustrates the cumulative percentage of patients in the tetrabenazine tablets and placebo treatment groups who achieved the level of reduction in the Total Chorea Score shown on the X-axis. The leftward shift of the curve (toward greater improvement) for patients in the tetrabenazine-treated patients indicates that more were likely to have any given degree of improvement in their chorea score. For example, about 7% of placebo patients achieved a 6-point or greater improvement compared to 50% of tetrabenazine-treated patients. The percentage of patients achieving reductions of at least 10, 6, and 3 points from baseline to Week 12 are shown in the inset table.

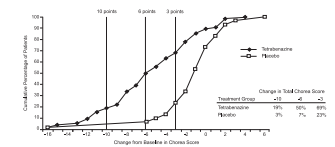


Figure 2. Cumulative Percentage of Patients with Specified Changes from Baseline in Total Chorea Score. The Percentage of Treated Patients who met Treatment Goal who completed Study 1 were: Placebo 87%, Tetrabenazine 97%.

A Physician-Validated Clinical Impression (CVI) Invented tetrabenazine tablets statistically. In general, measures of functional capacity and cognition showed no difference between tetrabenazine tablets and placebo. However, one functional measure (Part 4 of the HDRS), a 55-item scale assessing the capacity for patients to perform certain activities of daily living, showed a difference for patients treated with tetrabenazine tablets compared to placebo. Although the difference was normally statistically significant, it was not statistically significant when adjusted for baseline scores. Patients who were specifically developed to assess cognitive function in patients with HD (Part 2 of the UHDRS) also showed a difference for patients treated with tetrabenazine tablets compared to placebo, but the difference was not statistically significant.

Study 2

A second controlled study was performed in patients who had been treated with open-label tetrabenazine tablets for at least 6 months. Mean duration of treatment was 2 years. They were randomized to continuation of tetrabenazine tablets at the same dose (12.5 or placebo (n=30)) for three days, at which time their chorea scores were compared. Although the controls did not not significantly improve (n=31), the estimate of the treatment effect was similar to that seen in Study 1 (about 3 units).

15 HOW SUPPLIED/STORAGE AND HANDLING

15.1 How Supplied

Tetrabenazine tablets are available in the following strengths and packages: The 12.5 mg tetrabenazine tablets are white to off-white, round, flat beveled edged tablets, non-scored, debossed with '11' on one side and 'T2' on other side. They are supplied as follows:

Bottles of 50 tablets (NDC 31722-821-56)
Bottles of 112 tablets (NDC 31722-821-11)
Bottle pack of 10 unit dose tablets (NDC 31722-821-31)
Blister pack of 100 (10x10) unit dose tablets (NDC 31722-821-32)

The 25 mg tetrabenazine tablets are yellowish-buff, round, flat beveled edged tablets, scored, debossed with '11' on one side and 'T2' on other side. They are supplied as follows:

Bottles of 50 tablets (NDC 31722-822-56)
Bottles of 112 tablets (NDC 31722-822-11)
Blister pack of 10 unit dose tablets (NDC 31722-822-31)
Blister pack of 100 (10x10) unit dose tablets (NDC 31722-822-32)

15.2 Storage

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

17 PATIENT COUNSELING INFORMATION

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

Risk of Suicidality

Inform patients and their families that tetrabenazine tablets may increase the risk of suicidal thinking and behaviors. Counsel patients and their families to remain alert for the emergence of suicidal ideation and to report it immediately to the patient's physician. (see Contraindications (4), Warnings and Precautions (5.2)).

Risk of Depression

Inform patients and their families that tetrabenazine tablets may cause depression or may worsen pre-existing depression. Encourage patients and their families to be alert for the emergence of sadness, worsening of depression, withdrawal, moodiness, irritability, loss of interest in usual activities, thoughts of suicide, suicidal ideation, anxiety, agitation, or panic attacks and to report such symptoms promptly to the patient's physician. (see Contraindications (4), Warnings and Precautions (5.2)).

Coating of Tetrabenazine Tablets

Inform patients and their families that the dose of tetrabenazine tablets will be increased slowly to the dose that is best for each patient. Sedation, dizziness, parkinsonism, depression, and difficulty swallowing may occur. Such symptoms should be promptly reported to the physician and the tetrabenazine tablets may dose need to be reduced or discontinued. (see Dosage and Administration (2.2)).

Risk of Sedation and Somnolence

Inform patients that tetrabenazine tablets may induce sedation and somnolence and may impair the ability to perform tasks that require complex motor and mental skills. Advise patients that until they have fully responded to tetrabenazine tablets, they should be careful doing activities that require them to be alert, such as driving a car or operating machinery. (see Warnings and Precautions (5.2)).

Interaction with Alcohol

Inform patients and their families that alcohol may potentiate the sedation induced by tetrabenazine tablets. (see Drug Interactions (7.4)).

Use in Pregnancy

Advise patients and their families to notify the physician if the patient becomes pregnant or intends to become pregnant during tetrabenazine therapy, or is breast-feeding or intending to breast-feed an infant during therapy. (see Contraindications (4), Use in Specific Populations (6.7)).

Use in Nursing Mothers

Advise patients and their families that tetrabenazine tablets may be excreted in breast milk. (see Contraindications (4), Use in Specific Populations (6.7)).

Use in Children

Tetrabenazine tablets are contraindicated in children. (see Contraindications (4), Use in Specific Populations (6.8)).

Use in the Elderly

The safety and efficacy of tetrabenazine tablets in elderly patients have not been established. (see Use in Specific Populations (6.9)).

Use in Patients with Renal Impairment

The safety and efficacy of tetrabenazine tablets in patients with renal impairment have not been established. (see Use in Specific Populations (6.10)).

Use in Patients with Hepatic Impairment

Tetrabenazine tablets are contraindicated in patients with hepatic impairment. (see Contraindications (4), Use in Specific Populations (6.6)).

Use in Patients with Concomitant Medication

Advise patients to inform their physician of all concomitant medications they are taking, including over-the-counter medications, herbal supplements, and vitamins. (see Drug Interactions (7.3)).

Use in Patients with Alcohol Use Disorder

Advise patients to inform their physician of any alcohol use or dependence. (see Drug Interactions (7.4)).

Use in Patients with Psychiatric History

Advise patients to inform their physician of any history of psychiatric illness, including depression, anxiety, or suicidal thoughts. (see Warnings and Precautions (5.2)).

Use in Patients with Driving History

Advise patients to inform their physician of any history of driving while impaired. (see Warnings and Precautions (5.2)).

Use in Patients with History of Abuse

Advise patients to inform their physician of any history of substance abuse or other forms of abuse. (see Warnings and Precautions (5.2)).

Use in Patients with History of Suicide

Advise patients to inform their physician of any history of suicidal thoughts or behaviors. (see Warnings and Precautions (5.2)).

Use in Patients with History of Depression

Advise patients to inform their physician of any history of depression or anxiety. (see Warnings and Precautions (5.2)).

Use in Patients with History of Parkinson's Disease

Advise patients to inform their physician of any history of Parkinson's disease. (see Warnings and Precautions (5.2)).

Use in Patients with History of Seizures

Advise patients to inform their physician of any history of seizures. (see Warnings and Precautions (5.2)).

Use in Patients with History of Heart Disease

Advise patients to inform their physician of any history of heart disease. (see Warnings and Precautions (5.2)).

Use in Patients with History of Lung Disease

Advise patients to inform their physician of any history of lung disease. (see Warnings and Precautions (5.2)).

Use in Patients with History of Kidney Disease