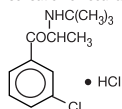


BUPROPION  
HYDROCHLORIDE  
EXTENDED-RELEASE  
TABLETS (SR)

There are no known antidotes for bupropion. In case of an overdose, provide supportive care, including close medical supervision and monitoring. Consider the possibility of multiple drug overdose. Ensure an adequate airway, oxygenation, and ventilation. Monitor cardiac rhythm and vital signs. Induction of emesis is not recommended.

**11 DESCRIPTION**  
Bupropion hydrochloride extended-release tablets, USP (SR) are a non-nicotine add to smoking cessation. Bupropion is chemically unrelated to nicotine or other agents currently used in the treatment of nicotine addiction. It is well tolerated and marketed as an antidepressant (WELLBUTRIN bupropion hydrochloride) tablets and WELLBUTRIN SR (bupropion hydrochloride) sustained-release tablets. Bupropion hydrochloride extended-release tablets, USP (SR) is also chemically unrelated to tricyclic antidepressants, selective serotonin re-uptake inhibitors, or other known antidepressant agents. Its structure closely resembles that of diethylpropion; it is related to phenylethylamines. It is designated as (+)-1-(3-chlorophenyl)-2-(1-(dimethylamino)-1-propanone hydrochloride). The molecular weight is 256.2. The molecular formula is C<sub>17</sub>H<sub>17</sub>ClN. Bupropion hydrochloride USP is white powder, and is soluble in 0.1N Hydrochloric acid, in alcohol (96.9%) and in water. It has a bitter taste and produces the sensation of local anesthesia on the oral mucosa. The structural formula is:



Bupropion hydrochloride extended-release tablets, USP (SR) are supplied for oral administration as 150-mg (purple), film-coated, sustained-release tablets. Each tablet contains the labeled amount of bupropion hydrochloride USP and the inactive ingredients copovidone, cysteine hydrochloride, hypromellose, magnesium stearate, microcrystalline cellulose, polyethylene glycol, polysorbate 80, titanium dioxide, FD&C Blue No. 2 Lake and FD&C Red No. 40 Lake. Bupropion hydrochloride extended-release tablets, USP (SR) pass USP Dissolution Test 2.

**12 CLINICAL PHARMACOLOGY**  
**12.1 Mechanism of Action**  
The exact mechanism by which bupropion hydrochloride extended-release tablets, (SR) enhances the ability of patients to abstain from smoking is not known but is presumed to be related to norepinephrine and dopamine, and does not inhibit the reuptake of serotonin. Bupropion does not inhibit monoamine oxidase.

**12.3 Pharmacokinetics**  
Bupropion is a racemic mixture. The pharmacological activity and pharmacokinetics of the individual enantiomers have not been studied. The mean elimination half-life (t<sub>1/2</sub>) of bupropion after chronic dosing is 21 (±9) hours, and steady-state plasma concentrations of bupropion are reached within 8 days.

**Absorption**  
The absolute bioavailability of bupropion in humans has not been determined because an intravenous formulation for human use is not available. However, it appears likely that only a small proportion of any orally administered dose reaches the systemic circulation intact. In rat and dog studies, the bioavailability of bupropion ranged from 5% to 20%.

In humans, following oral administration of bupropion hydrochloride extended-release tablets, (SR), mean plasma concentration (C<sub>max</sub>) of bupropion is usually achieved within 7 hours. Bupropion hydrochloride extended-release tablets, (SR) can be taken with or without food. Bupropion C<sub>max</sub> and AUC was increased by 11% to 35%, and 16% to 19%, respectively, when bupropion hydrochloride extended-release tablets, (SR) was administered with food to healthy volunteers in three trials. The food effect is not considered clinically significant.

**Distribution**  
In vitro tests show that bupropion is 84% bound to human plasma proteins at concentrations up to 200 mg per mL. The extent of protein binding of the hydroxybupropion metabolite is similar to that for bupropion, whereas the extent of protein binding of the threohydroxybupropion metabolite is about half that seen with bupropion.

**Metabolism**  
Bupropion is extensively metabolized in humans. Three metabolites are active: hydroxybupropion, which is formed via a 10:90 ratio of enantiomers; threohydroxybupropion and erythrohydroxybupropion, which are formed via reduction of the carbonyl group. In vitro findings suggest that CYP2B6 is the principal isoenzyme involved in the formation of hydroxybupropion, while cytochrome P450 enzymes are not involved in the formation of threohydroxybupropion and erythrohydroxybupropion. The formation of a glycine conjugate of meta-chlorobenzamide, which is then excreted as the major urinary metabolite. The potency and toxicity of the metabolites relative to bupropion have not been fully characterized. However, it has been demonstrated in an antidepressant screening test in which hydroxybupropion is one-half as potent as bupropion, while threohydroxybupropion and erythrohydroxybupropion are 5-fold less potent than bupropion. This may be of clinical importance, because the plasma concentrations of the metabolites are as high as or higher than those of bupropion.

Following a single-dose administration of bupropion hydrochloride extended-release tablets, (SR) in humans, C<sub>max</sub> of hydroxybupropion occurs approximately 6 hours post-dose and is approximately 10 times the peak level of the parent drug at steady state. The elimination half-life of hydroxybupropion is approximately 20 (±5) hours and its AUC at steady state is about 17 times that of bupropion. The time to peak concentration for the threohydroxybupropion and erythrohydroxybupropion are approximately 10 to that of the hydroxybupropion metabolite. However, their elimination half-lives are longer, 33 (±10) and 37 (±13) hours, respectively, and steady-state AUCs are 1.5 and 7 times that of bupropion, respectively. Bupropion and its metabolites exhibit linear kinetics following chronic administration of 300 to 450 mg per day.

**Elimination**  
Following oral administration of 200 mg of <sup>14</sup>C-bupropion in humans, 87% and 10% of the radioactive dose were recovered in the urine and feces, respectively. Only 0.5% of the oral dose was excreted as unchanged bupropion.

**Specific Populations**  
Factors or conditions altering metabolic capacity (e.g., liver disease, congestive heart failure [CHF], age, concomitant medications, etc.) or elimination may be expected to influence the degree and extent of accumulation of the active metabolites of bupropion. The elimination of the major metabolites of bupropion may be affected by reduced renal or hepatic function because they are moderately polar compounds and are likely to undergo further metabolism or conjugation in the liver prior to urinary excretion.

**Patients with Renal Impairment**  
There is limited information on the pharmacokinetics of bupropion in patients with renal impairment. An in vitro study comparing the renal clearance of bupropion and its active metabolites in renal impairment demonstrated that the parent drug C<sub>max</sub> and AUC values were comparable in the 2 groups, whereas the hydroxybupropion and threohydroxybupropion metabolites had a 2.3- and 2.8-fold increase, respectively. AUC for subjects with end-stage renal failure. A second trial comparing normal subjects with subjects with moderate to severe renal impairment (GFR 30.9 ± 10.8 mL per min) showed that after a single 150-mg dose of sustained-release bupropion, exposure to bupropion was approximately 2-fold higher in subjects with impaired renal function while levels of the hydroxybupropion and threohydroxybupropion metabolites were similar. The 2 groups were similar in terms of the amount of bupropion and its metabolites in the liver to active metabolites, which are further metabolized and subsequently excreted by the kidneys. The elimination of the major metabolites of bupropion may be reduced by impaired renal function. Bupropion hydrochloride extended-release tablets, (SR) should be used with caution in patients with renal impairment and a reduced frequency and/or dose should be considered [see Use in Specific Populations (8.6)].

**Patients with Hepatic Impairment**  
The effect of hepatic impairment on the pharmacokinetics of bupropion was characterized in 2 single-dose trials, one in subjects with mild to moderate liver disease and one in subjects with mild-to-severe cirrhosis. The first trial demonstrated that the half-life of hydroxybupropion was significantly longer in 8 subjects with alcoholic liver disease than in 8 healthy volunteers (32 ± 14 hours versus 21 ± 5 hours, respectively). Although not statistically significant, the AUCs for hydroxybupropion and hydroxybupropion were more variable and tended to be greater (by 5% to 57%) in volunteers with alcoholic liver disease. The differences in half-life for bupropion and the other metabolites in the 2 groups were minimal.

The second trial demonstrated no statistically significant differences in the pharmacokinetics of bupropion and its active metabolites between the 2 groups. The pharmacokinetics of bupropion and its active metabolites were similar in the 2 groups. There is no prominent effect of age on pharmacokinetic parameters for bupropion (AUC, C<sub>max</sub>, and T<sub>max</sub>) and its active metabolites (t<sub>1/2</sub>) in subjects with mild-to-moderate hepatic cirrhosis. In 8 subjects with severe hepatic cirrhosis, significant alterations in the pharmacokinetics of bupropion and its metabolites were seen (Table 4).

**Table 4. Pharmacokinetics of Bupropion and Metabolites in Patients with Severe Hepatic Cirrhosis: Ratio Relative to Healthy Matched Controls**

	C <sub>max</sub>	AUC	t <sub>1/2</sub>	T <sub>max</sub>
Bupropion	1.69	3.12	1.43	0.5 h
Hydroxybupropion	0.31	1.28	3.88	19 h
Threo/erythrohydroxybupropion amino alcohol	0.69	2.48	1.96	20 h

**Difference**  
Smokers: The effects of cigarette smoking on the pharmacokinetics of bupropion were studied in 34 healthy male and female volunteers; 17 were chronic cigarette smokers and 17 were nonsmokers. Following oral administration of bupropion hydrochloride extended-release tablets, (SR), there were no statistically significant differences in C<sub>max</sub>, AUC, and clearance of bupropion or its major metabolites between smokers and nonsmokers.

In a trial comparing the treatment combination of bupropion hydrochloride extended-release tablets, (SR) and NTS versus bupropion hydrochloride extended-release tablets, (SR) alone, no statistically significant differences were observed between the 2 treatment groups of combination bupropion hydrochloride extended-release tablets, (SR) and NTS (n = 197) and bupropion hydrochloride extended-release tablets, (SR) alone (n = 193) in the plasma concentrations of bupropion or its active metabolites at Weeks 3 and 6.

**Patients with Left Ventricular Dysfunction**  
During a chronic dosing trial with bupropion in 14 depressed subjects with left ventricular dysfunction (history of CHF or an enlarged heart) there was no apparent effect on the pharmacokinetics of bupropion or its metabolites, compared with healthy volunteers.

**Age**  
The effects of age on the pharmacokinetics of bupropion and its metabolites have not been fully characterized, but an exploration of steady-state bupropion concentrations from several different efficacy trials involving subjects dosed in a range of 300 to 750 mg per day, on a 3-times-daily schedule, revealed no relationship between age (18 to 83 years) and plasma concentration of bupropion. A single-dose pharmacokinetic trial demonstrated that the disposition of bupropion and its metabolites in elderly subjects was similar to that of younger subjects. These data suggest there is no prominent effect of age on bupropion concentration; however, another single- and multiple-dose pharmacokinetics trial suggested that the elderly are at increased risk for accumulation of bupropion and its metabolites [see Use in Specific Populations (8.5)].

**Male and Female Patients**  
Pooled analysis of bupropion pharmacokinetic data from 90 healthy male and 90 healthy female volunteers revealed no sex-related differences in the peak plasma concentrations of bupropion. The mean systemic exposure (AUC) was approximately 13% higher in male volunteers compared with female volunteers. The clinical significance of this finding is unknown.

**Drug Interactions Studies**  
**Potential for Other Drugs to Affect Bupropion Hydrochloride Extended-Release Tablets (SR)**  
In vitro studies indicate that bupropion is primarily metabolized to hydroxybupropion by CYP2B6. Therefore, the potential exists for drug interactions between bupropion hydrochloride extended-release tablets, (SR) and drugs that are inhibitors or inducers of CYP2B6. In addition, in vitro studies suggest that paroxetine, sertraline, nortriptyline, and fluoxetine are inhibitors of CYP2B6, and nefazodone inhibits the hydroxylation of bupropion.

**Inhibitors of CYP2B6: Ticlopidine, Clopidogrel**  
In a trial in healthy male volunteers, clopidogrel 75 mg once daily or ticlopidine 250 mg twice daily increased exposures (C<sub>max</sub> and AUC) of bupropion by 40% and 60% for clopidogrel, and by 38% and 55% for ticlopidine, respectively. The exposures (C<sub>max</sub> and AUC) of hydroxybupropion were decreased 50% and 52%, respectively, by clopidogrel, and 78% and 84%, respectively, by ticlopidine. This effect is thought to be due to the inhibition of the CYP2B6-catalyzed bupropion hydroxylation.

**Prasugrel**  
Prasugrel is a weak inhibitor of CYP2B6. In healthy subjects, prasugrel increased bupropion C<sub>max</sub> and AUC values by 14% and 18%, respectively, and decreased C<sub>min</sub> and AUC values of hydroxybupropion, an active metabolite of bupropion, by 32% and 24%, respectively.

**Cimetidine**  
The threohydroxybupropion metabolite of bupropion does not appear to be produced by cytochrome P450 enzymes. The effects of concomitant administration of cimetidine on the pharmacokinetics of bupropion and its active metabolites were studied in 24 healthy young male volunteers. Following oral administration of bupropion 300 mg with and without cimetidine 800 mg, the pharmacokinetics of bupropion and hydroxybupropion were unaffected. However, there were 16% and 32% increases in the AUC and C<sub>max</sub>, respectively, of the combined moieties of threohydroxybupropion and erythrohydroxybupropion.

**Citalopram**  
Citalopram did not affect the pharmacokinetics of bupropion and its 3 metabolites.

**Inducers of CYP2B6: Ritonavir and Lopinavir**  
In a healthy volunteer trial, ritonavir 100 mg twice daily reduced the AUC and C<sub>max</sub> of bupropion by 22% and 21%, respectively. The exposure of the hydroxybupropion metabolite was decreased by 23%, the threohydroxybupropion decreased by 38%, and the erythrohydroxybupropion decreased by 48%.

In a second healthy volunteer trial, lopinavir at a dose of 600 mg twice daily reduced the AUC and the C<sub>max</sub> of bupropion by 66% and 62%, respectively. The exposure of the hydroxybupropion metabolite was decreased by 78%, the threohydroxybupropion decreased by 50%, and the erythrohydroxybupropion decreased by 68%.

In another healthy volunteer trial, lopinavir 400 mg/ritonavir 100 mg twice daily decreased bupropion AUC and C<sub>max</sub> by 57%. The AUC and C<sub>max</sub> of hydroxybupropion were decreased by 50% and 31%, respectively.

## Elavanz

In a trial in healthy volunteers, elavanz 600 mg once daily for 2 weeks reduced the AUC and C<sub>max</sub> of bupropion by approximately 55% and 34%, respectively. The AUC of hydroxybupropion was unchanged, whereas C<sub>min</sub> of hydroxybupropion was increased by 50%.

**Carbamazepine, Phenytoin, Phenobarbital**  
While not systematically studied, these drugs may induce the metabolism of bupropion. Potential for Bupropion Hydrochloride Extended-Release Tablets, (SR) to Affect Other Drugs  
Animal studies indicated that bupropion may be an inducer of drug-metabolizing enzymes in humans. In one trial, following chronic administration of bupropion 100 mg three times daily to 8 healthy male volunteers for 14 days, there was no evidence of induction of its own metabolism. Nevertheless, there may be potential for clinically important alterations of blood levels of co-administered drugs.

**In Vitro, Bupropion and Its Metabolites (erythrohydroxybupropion, threohydroxybupropion, hydroxybupropion) are CYP2D6 Inhibitors.** In a clinical trial of 15 male subjects (ages 19 to 35 years) who were extensive metabolizers of CYP2D6, bupropion 300 mg per day followed by a single dose of 50 mg desipramine increased the C<sub>max</sub>, AUC, and 11/2 of desipramine by an average of approximately 2-, 5-, and 2-fold, respectively. The effect was present for at least 7 days after the last dose of bupropion. Concomitant use of bupropion with other drugs metabolized by CYP2D6 has not been formally studied.

**Citalopram**  
Although citalopram is not primarily metabolized by CYP2D6, in one trial bupropion increased the C<sub>max</sub> and AUC of citalopram by 30% and 40%, respectively.

**Lamotrigine**  
Multiple oral doses of bupropion had no statistically significant effects on the single-dose pharmacokinetics of lamotrigine in 12 healthy volunteers.

**Digoxin**  
Literature data showed that digoxin exposure was decreased when a single oral dose of 0.5-mg digoxin was administered 24 hours after a single oral dose of extended-release 150-mg bupropion in healthy volunteers.

**13 CLINICAL TOXICOLOGY**  
**13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility**  
Lifetime carcinogenicity studies were performed in rats. A single oral dose of bupropion doses up to 300 and 1500 mg per kg per day, respectively. These doses are approximately 10 and 12 times the MRHD, respectively, on a mg per m<sup>2</sup> basis. In the rat study there was an increase in nodular proliferative lesions of the liver at doses of 100 to 300 mg per kg per day (approximately 3 to 10 times the MRHD) on a mg per m<sup>2</sup> basis; lower doses were not tested. The question of whether or not such lesions may be precursors of neoplasms of the liver is currently unresolved. Similar liver lesions were not seen in the mouse study, and no increase in malignant tumors of the liver and other organs was seen in either study.

Bupropion produced a positive response (2 to 3 times control mutation rate) in 2 of 5 strains in the Ames bacterial mutagenicity assay. Bupropion produced an increase in chromosomal aberrations in 1 of 3 in vivo rat bone marrow cytogenetic studies.

A fertility study in rats at doses up to 300 mg per kg per day revealed no evidence of impaired fertility.

**14 CLINICAL STUDIES**  
The effect of bupropion hydrochloride extended-release tablets, (SR) as an add to smoking cessation was demonstrated in 3 placebo-controlled, double-blind trials in nondependent chronic cigarette smokers (n = 1,940, greater than or equal to 15 cigarettes per day). In these trials, bupropion hydrochloride extended-release tablets, (SR) was used in conjunction with individual smoking cessation techniques.

The first trial was a dose-response trial conducted at 3 clinical centers. Subjects in this trial were treated for 7 weeks with 1 of 3 doses of bupropion hydrochloride extended-release tablets, (SR) (100, 150, or 300 mg per day) or placebo, which was defined as total abstinence during the last 4 weeks of treatment (Weeks 4 through 7). Abstinence was determined by subject daily diaries and verified by carbon monoxide levels in expired air. Results of this dose-response trial with bupropion hydrochloride extended-release tablets, (SR) are shown in Table 5. The percentage of subjects who achieved 4-week abstinence (Weeks 4 through 7). Treatment with bupropion hydrochloride extended-release tablets, (SR) at 150 and 300 mg per day was significantly more effective than placebo in this trial.

Table 5 presents quit rates over time in the multicenter trial by treatment group. The quit rates for the proportions of all subjects initially enrolled in the intent-to-treat analysis who abstained from Week 4 of the trial through the specified week. Treatment with bupropion hydrochloride extended-release tablets, (SR) (150 or 300 mg per day) was more effective than placebo in helping subjects achieve 4-week abstinence. In addition, treatment with bupropion hydrochloride extended-release tablets, (SR) (7 weeks at 300 mg per day) was more effective than placebo in helping subjects maintain continuous abstinence through Week 26 (6 months) of the trial.

**Table 5. Dose-Response Trial: Quit Rates by Treatment Group**

Abstinence from Week 4 through 4 Specified Week	Treatment Groups			
	Placebo (n = 151)	Bupropion Hydrochloride Extended-Release Tablets, (SR) 100 mg/day (n = 153)	Bupropion Hydrochloride Extended-Release Tablets, (SR) 150 mg/day (n = 153)	Bupropion Hydrochloride Extended-Release Tablets, (SR) 300 mg/day (n = 153)
Week 7 (4-week quit)	17% (11-23)	22% (15-28)	27%* (20-35)	36%* (28-43)
Week 12	8 (1-19)	20% (13-26)	20% (14-27)	25%* (18-32)
Week 26	6 (1-16)	16% (11-22)	18% (12-24)	19%* (13-25)

\*Significantly different from placebo (P<0.05).

The second trial was a comparator trial conducted at 4 clinical centers. Four treatments were evaluated: bupropion hydrochloride extended-release tablets, (SR) 300 mg per day, nicotine transdermal system (NTS) 21 mg per day, combination of bupropion hydrochloride extended-release tablets, (SR) 300 mg per day plus NTS 21 mg per day, and placebo. Subjects were treated for 9 weeks. Treatment with bupropion hydrochloride extended-release tablets, (SR) was initiated at 150 mg per day while the subject was still smoking and was increased after 3 days to 300 mg per day, given as 150 mg twice daily. NTS 21 mg per day was added to treatment with bupropion hydrochloride extended-release tablets, (SR) after approximately 1 week when the subject reached the target quit date. During Weeks 6 and 7 of the trial, NTS was tapered to 14 and 7 mg per day, respectively. Quitting, defined as total abstinence during Weeks 4 through 7, was determined by subject daily diaries and verified by expired air carbon monoxide levels. In this trial, subjects treated with any of the 3 treatments achieved greater 4-week abstinence rates than subjects treated with placebo.

The third trial was a comparator trial conducted at 3 clinical centers. The 4 treatments were: bupropion hydrochloride extended-release tablets, (SR) 300 mg per day, NTS 21 mg per day, combination of bupropion hydrochloride extended-release tablets, (SR) 300 mg per day plus NTS 21 mg per day, and placebo for the comparator trial.

Abstinence from Week 4 through 4 Specified Week	Treatment Groups			
	Placebo (n = 160)	Nicotine Transdermal System (NTS) 21 mg/day (n = 244)	Bupropion Hydrochloride Extended-Release Tablets, (SR) 300 mg/day (n = 244)	Bupropion Hydrochloride Extended-Release Tablets, (SR) 300 mg/day and NTS 21 mg/day (n = 245)
Week 7 (4-week quit)	23% (17-30)	36% (30-42)	49% (43-56)	58% (51-64)
Week 10	20% (14-26)	32% (26-37)	46% (39-52)	51% (45-58)

When subjects in this trial were followed out to 1 year, the superiority of bupropion and the combination of bupropion and NTS over placebo in helping them to achieve abstinence from smoking was maintained. The continuous abstinence rate was 30% (95% CI: 24 to 35) in the subjects treated with bupropion and 33% (95% CI: 27 to 39) for subjects treated with the combination at 26 weeks compared with 13% (95% CI: 7 to 18) in the placebo group. At 52 weeks, the continuous abstinence rate was 23% (95% CI: 18 to 28) in the subjects treated with bupropion and 28% (95% CI: 23 to 34) for subjects treated with the combination, compared with 8% (95% CI: 3 to 12) in the placebo group. Although the treatment combination of bupropion and NTS displayed the highest rates of continuous abstinence throughout the trial, the quit rates for the combination were not significantly higher (P>0.05) than for bupropion alone.

The comparisons between bupropion hydrochloride extended-release tablets, (SR), NTS, and combination treatment in this trial have not been replicated, and, therefore should not be interpreted as demonstrating the superiority of any of the active treatment arms over any other.

The third trial was a comparator trial conducted at 3 clinical centers. The 4 treatments in this trial received open-label bupropion hydrochloride extended-release tablets, (SR), 300 mg per day for 7 weeks. Subjects who quit smoking while receiving hydrochloride extended-release tablets, (SR), (n = 432) were then randomized to bupropion hydrochloride extended-release tablets, (SR), 300 mg per day or placebo for a total trial duration of 1 year. Abstinence from smoking was determined by subject self-report and verified by expired air carbon monoxide levels. This trial demonstrated that at 6 months, continuous abstinence rates were significantly higher for subjects continuing to receive bupropion than for those switched to placebo (P<0.05; 55% versus 44%).

Results of clinical trials are shown in Table 6. The incidence of adverse events, including abnormal angulation, aggression, delusions, hallucinations, homicidal ideation, aggression, hostility, agitation, anxiety, and panic, as well as suicidal ideation and suicide when attempting to quit smoking while taking bupropion hydrochloride extended-release tablets, (SR), instruct patients to discontinue bupropion hydrochloride extended-release tablets, (SR) and contact a healthcare professional if they experience such symptoms [see Warnings and Precautions (5.2), Adverse Reactions (6.2)].

**Severe Allergic Reactions**  
Educate patients on the symptoms of hypersensitivity and to discontinue bupropion hydrochloride extended-release tablets (SR), if they have a severe allergic reaction to bupropion.

**Seizure**  
Instruct patients to discontinue bupropion hydrochloride extended-release tablets (SR), and not restart if they experience a seizure while on treatment. Advise patients that the excessive use or abrupt discontinuation of alcohol, benzodiazepines, antiepileptic drugs, or sedatives/hypnotics can increase the risk of seizure. Advise patients to minimize or avoid use of alcohol.

**Angle-closure Glaucoma**  
Patients should be advised that taking bupropion hydrochloride extended-release tablets, (SR) can cause mild pupillary dilation, which in susceptible individuals, can lead to an episode of angle-closure glaucoma. Pre-existing glaucoma is almost always open-angle glaucoma because angle-closure glaucoma, when diagnosed, can be treated definitively with iridectomy. Open-angle glaucoma is not a risk factor for angle-closure glaucoma. Patients may wish to be examined to determine whether they are susceptible to angle closure, and have a prophylactic procedure (e.g., iridectomy), if they are susceptible [see Warnings and Precautions (5.7)].

**Bupropion-containing Products**  
Educate patients that bupropion hydrochloride extended-release tablets, (SR), contains the same active ingredient (bupropion hydrochloride) found in WELLBUTRIN, WELLBUTRIN SR, and WELLBUTRIN XL, which are used to treat depression and that bupropion hydrochloride extended-release tablets, (SR) should not be used in conjunction with any other medications that contain bupropion (such as WELLBUTRIN, the immediate-release formulation, WELLBUTRIN SR, the sustained-release formulation, WELLBUTRIN XL or FORFIVO XL™, the extended-release formulations; and APLENZIN®, the extended-release formulation of bupropion hydrobromide). In addition, there are a number of generic bupropion HCl products for the immediate-, sustained-, and extended-release formulations.

**Potential for Cognitive and Motor Impairment**  
Advise patients that any CNS-active drug like bupropion hydrochloride extended-release tablets, (SR) may impair their ability to perform tasks requiring judgment or motor and cognitive skills. Advise patients that the use of alcohol, benzodiazepines, antiepileptic drugs, or sedatives/hypnotics may further impair performance, they should refrain from driving an automobile or operating complex, hazardous machinery. Bupropion may lead to decreased alcohol tolerance.

**Concomitant Medications**  
Counsel patients to notify their healthcare provider if they are taking or plan to take any prescription or over-the-counter drugs because bupropion hydrochloride extended-release tablets, (SR) and other drugs may affect each other's metabolisms.

**Pregnancy**  
Advise patients to notify their healthcare provider if they become pregnant or intend to become pregnant during therapy.

**Precautions for Nursing Mothers**  
Advise patients that bupropion is present in human milk in small amounts.

**Storage Information**  
Instruct patients to store bupropion hydrochloride extended-release tablets (SR), at room temperature, between 68°F and 77°F (20°C to 25°C) and keep the tablets dry and out of the light.

**Administration Information**  
Instruct patients that bupropion hydrochloride extended-release tablets (SR), while so that the release rate is not altered. Do not chew, divide, or crush tablets; they are designed to slowly release drug in the body. When patients take more than 150 mg per day, instruct them to take bupropion hydrochloride extended-release tablets (SR), in 2 doses at least 8 hours apart, to minimize the risk of seizures. Instruct patients to take bupropion hydrochloride extended-release tablets (SR) with or without food and to take the next tablet at the regular time because of the dose-related risk of seizure. Bupropion hydrochloride extended-release tablets (SR), can be taken with or without food. Advise patients that bupropion hydrochloride extended-release tablets (SR) may have an odor.

WELLBUTRIN, WELLBUTRIN SR, and WELLBUTRIN XL are registered trademarks of the GSK group of companies. The other brands listed are the trademarks of their respective owners.

You can ask your pharmacist or doctor for information about bupropion hydrochloride extended-release tablets, (SR) or call 1-888-375-3784.

Manufactured by: SciGen Pharmaceuticals, Inc. Hauppauge, NY 11788 USA

Manufactured for: Dr. Reddy's Laboratories Inc. Princeton, New Jersey 08540, USA

Rx Only: 06/19

**Table 8. Number of Patients with Clinically Significant or Serious NPS Adverse Events by Treatment Group among Patients without a History of Psychiatric Disorder**

Treatment Group	Bupropion hydrochloride extended-release tablets, (SR) (n = 968) (%)	Varenicline (n = 975) (%)	NRT (n = 987) (%)	Placebo (n = 982) (%)
Clinically significant NPS	34 (3.5)	30 (3.1)	33 (3.3)	40 (4.1)
Serious NPS	5 (0.5)	1 (0.1)	1 (0.1)	4 (0.4)
Psychiatric hospitalizations	2 (0.2)	1 (0.1)	0 (0.0)	1 (0.1)

There were more clinically significant NPS adverse events reported in patients in the psychiatric cohort in each treatment group compared with the non-psychiatric cohort (Table 9). The incidence of events in the composite endpoint was higher for each of the active treatments compared with placebo. Risk Differences (RDs) (95% CI) vs. placebo were 2.2% (-0.5, 4.9) for Bupropion hydrochloride extended-release tablets, (SR); 2.7% (-0.05, 5.4) for varenicline, and 0.4% (-2.2, 3.0) for NRT transdermal nicotine.

**Table 9. Number of Patients with Clinically Significant or Serious NPS Adverse Events by Treatment Group among Patients with a History of Psychiatric Disorder**

Treatment Group	Bupropion hydrochloride extended-release tablets, (SR) (n = 1,004) (%)	Varenicline (n = 1,007) (%)	NRT (n = 995) (%)	Placebo (n = 997) (%)
Clinically significant NPS	118 (11.8)	123 (12.2)	98 (9.8)	95 (9.5)
Serious NPS	8 (0.8)	6 (0.6)	4 (0.4)	6 (0.6)
Psychiatric hospitalizations	8 (0.8)	5 (0.5)	4 (0.4)	2 (0.2)

There was one completed suicide, which occurred during treatment in a patient treated with placebo in the non-psychiatric cohort. There were completed suicides reported in the psychiatric cohort in both cohorts, subjects treated with Bupropion hydrochloride extended-release tablets, (SR) had a superior rate of CO-confirmed abstinence during Weeks 9 through 12 and 9 through 24 compared with subjects treated with placebo.

**Table 10: Continuous Abstinence (95% Confidence Interval), Study in Patients with or without a History of Psychiatric Disorder**