BUPROPION HYDROCHLORIDE SR- bupropion hydrochloride tablet, film coated, extended release Epic Pharma, LLC

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use bupropion hydrochloride extended-release tablets (SR) safely and effectively. See full prescribing information for bupropion hydrochloride extended-release tablets (SR).

BUPROPION HYDROCHLORIDE extended-release tablets (SR), for oral use

Initial U.S. Approval: 1985

WARNING: SUICIDAL THOUGHTS AND BEHAVIORS

See full prescribing information for complete boxed warning.

- Increased risk of suicidal thinking and behavior in children, adolescents, and young adults taking antidepressants (5.1)
- Monitor for worsening and emergence of suicidal thoughts and behaviors. (5.1)

.....INDICATIONS AND USAGE

Bupropion Hydrochloride Extended-Release Tablets (SR) are an aminoketone agent indicated as an aid to smoking cessation treatment. (1)

..... DOSAGE AND ADMINISTRATION

- Starting dose: 150 mg per day for first 3 days. (2.1)
- General: Increase dose gradually to reduce seizure risk. (2.1, 5.3)
- Begin dosing one week before guit day. (2.1)
- After 3 days, increase the dose to 300 mg per day, given as 150 mg twice daily at an interval of at least 8 hours. (2.1)
- May be used with a nicotine transdermal system. (2.5)
- Moderate to severe hepatic impairment: 150 mg every other day. (2.6, 8.7)
- Mild hepatic impairment: Consider reducing the dose and/or frequency of dosing. (2.6, 8.7)
- Renal impairment: Consider reducing the dose and/or frequency. (2.7, 8.6)

..... DOSAGE FORMS AND STRENGTHS

• Tablets: 150 mg. (3)

......CONTRAINDICATIONS

- Seizure disorder. (4, 5.3)
- Current or prior diagnosis of bulimia or anorexia nervosa. (4, 5.3)
- Abrupt discontinuation of alcohol, benzodiazepines, barbiturates, antiepileptic drugs. (4, 5.3)
- Monoamine Oxidase Inhibitors (MAOIs): Do not use MAOIs intended to treat psychiatric disorders with Bupropion Hydrochloride Extended-Release Tablets (SR) or within 14 days of stopping treatment with Bupropion Hydrochloride Extended-Release Tablets (SR). Do not use Bupropion Hydrochloride Extended-Release Tablets (SR) within 14 days of stopping an MAOI intended to treat psychiatric disorders. In addition, do not start Bupropion Hydrochloride Extended-Release Tablets (SR) in a patient who is being treated with linezolid or intravenous methylene blue. (4, 7.6)
- Known hypersensitivity to bupropion or other ingredients of Bupropion Hydrochloride Extended-Release Tablets (SR). (4, 5.8)

------WARNINGS AND PRECAUTIONS ------

- Neuropsychiatric adverse events: Postmarketing reports of serious or clinically significant
 neuropsychiatric adverse events have included changes in mood (including depression and mania),
 psychosis, hallucinations, paranoia, delusions, homicidal ideation, aggression, hostility, agitation,
 anxiety, and panic, as well as suicidal ideation, suicide attempt, and completed suicide. Observe
 patients attempting to quit smoking with bupropion hydrochloride extended-release tablets (SR) for the
 occurrence of such symptoms and instruct them to discontinue bupropion hydrochloride extendedrelease tablets (SR) and contact a healthcare provider if they experience such adverse events. (5.2)
- Seizure risk: The risk is dose-related. Can minimize risk by gradually increasing the dose and limiting daily dose to 300 mg. Discontinue if seizure occurs. (4, 5.3, 7.3)
- Hypertension: Bupropion hydrochloride extended-release tablets (SR) can increase blood pressure.
 Monitor blood pressure before initiating treatment and periodically during treatment, especially if used with nicotine replacement. (5.4)
- Activation of mania/hypomania: Screen patients for bipolar disorder and monitor for these symptoms. (
 5.5)
- Psychosis and other neuropsychiatric reactions. Instruct patients to contact a healthcare professional if reactions occur. (5.6)
- Angle-closure glaucoma: Angle-closure glaucoma has occurred in patients with untreated anatomically narrow angles treated with antidepressants. (5.7)

.....ADVERSE REACTIONS

Most common adverse reactions (incidence \geq 5% and \geq 1% more than placebo rate) are insomnia, rhinitis, dry mouth, dizziness, nervous disturbance, anxiety, nausea, constipation, and arthralgia. (6.1) To report SUSPECTED ADVERSE REACTIONS, contact Epic Pharma, LLC at 1-888-374-2791 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

DRUG INTERACTIONS

- CYP2B6 inducers: Dose increase may be necessary if coadministered with CYP2B6 inducers (e.g., ritonavir, lopinavir, efavirenz, carbamazepine, phenobarbital and phenytoin) based on clinical response, but should not exceed the maximum recommended dose. (7.1)
- Drugs metabolized by CYP2D6: Bupropion inhibits CYP2D6 and can increase concentrations of: antidepressants (e.g., venlafaxine, nortriptyline, imipramine, desipramine, paroxetine, fluoxetine,

sertraline), antipsychotics (e.g., haloperidol, risperidone, thioridazine), beta-blockers (e.g., metoprolol), and Type 1C antiarrhythmics (e.g., propafenone, flecainide). Consider dose reduction when using with bupropion. (7.2)

- Digoxin: May decrease plasma digoxin levels. Monitor digoxin levels. (7.2)
- Drugs that lower seizure threshold: Dose bupropion hydrochloride extended-release tablets (SR) with caution. (5.3, 7.3)
- Dopaminergic drugs (levodopa and amantadine): Central nervous system (CNS) toxicity can occur when used concomitantly with bupropion hydrochloride extended-release tablets (SR). (7.4)
- MAOIs: Increased risk of hypertensive reactions can occur when used concomitantly with bupropion hydrochloride extended-release tablets (SR). (7.6)
- Drug-laboratory test interactions: Bupropion hydrochloride extended-release tablets (SR) can cause false-positive urine test results for amphetamines. (7.8)

------USE IN SPECIFIC POPULATIONS ------

• Pregnancy: Use only if benefit outweighs potential risk to the fetus. (8.1)

See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.

Revised: 2/2023

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FULL PRESCRIBING INFORMATION

WARNING: SUICIDAL THOUGHTS AND BEHAVIORS

SUICIDALITY AND ANTIDEPRESSANT DRUGS

Although bupropion hydrochloride extended-release tablets (SR) are not indicated for treatment of depression, it contains the same active ingredient as the antidepressant medications WELLBUTRIN $^{\otimes}$, WELLBUTRIN SR $^{\otimes}$, and WELLBUTRIN XL $^{\otimes}$. Antidepressants increased the risk of suicidal thoughts and behavior in children, adolescents, and young adults in short-term trials. These trials did not show an increase in the risk of suicidal thoughts and behavior with antidepressant use in subjects over age 24; there was a reduction in risk with antidepressant use in subjects aged 65 and older [see Warnings and Precautions (5.1)]

In patients of all ages who are started on antidepressant therapy, monitor closely for worsening, and for emergence of suicidal thoughts and behaviors. Advise families and caregivers of the need for close observation and communication with the prescriber [see Warnings and Precautions (5.1)].

1 INDICATIONS AND USAGE

Bupropion Hydrochloride Extended-Release Tablets (SR) are indicated as an aid to smoking cessation treatment.

2 DOSAGE AND ADMINISTRATION

2.1 Usual Dosage

Treatment with bupropion hydrochloride extended-release tablets (SR) should be initiated before the patient's planned quit day, **while the patient is still smoking**, because it takes approximately 1 week of treatment to achieve steady-state blood levels of bupropion. The patient should set a "target quit date" within the first 2 weeks of treatment with bupropion hydrochloride extended-release tablets (SR).

Dosing

To minimize the risk of seizure:

- Begin dosing with one 150-mg tablet per day for 3 days.
- Increase dose to 300 mg per day given as one 150-mg tablet twice each day with an interval of at least 8 hours between each dose.
- Do not exceed 300 mg per day.

Bupropion hydrochloride extended-release tablets (SR) should be swallowed whole and not crushed, divided, or chewed, as this may lead to an increased risk of adverse effects including seizures [see Warnings and Precautions (5.3)].

Bupropion hydrochloride extended-release tablets (SR) may be taken with or without food [see Clinical Pharmacology (12.3)].

2.2 Duration of Treatment

Treatment with bupropion hydrochloride extended-release tablets (SR) should be continued for 7 to 12 weeks. If the patient has not quit smoking after 7 to 12 weeks, it is unlikely that he or she will quit during that attempt so treatment with bupropion hydrochloride extended-release tablets (SR) should probably be discontinued and the treatment plan reassessed. The goal of therapy with bupropion hydrochloride extended-release tablets (SR) is complete abstinence.

Discuss discontinuing treatment with bupropion hydrochloride extended-release tablets (SR) after 12 weeks if the patient feels ready but consider whether the patient may benefit from ongoing treatment. Patients who successfully quit after 12 weeks of treatment but do not feel ready to discontinue treatment should be considered for ongoing therapy with bupropion hydrochloride extended-release tablets (SR); longer treatment should be guided by the relative benefits and risks for individual patients.

It is important that patients continue to receive counseling and support throughout treatment with bupropion hydrochloride extended-release tablets (SR) and for a period of time thereafter.

2.3 Individualization of Therapy

Patients are more likely to quit smoking and remain abstinent if they are seen frequently and receive support from their physicians or other healthcare professionals. It is important to ensure that patients read the instructions provided to them and have their questions answered. Physicians should review the patient's overall smoking cessation program that includes treatment with bupropion hydrochloride extended-release tablets (SR). Patients should be advised of the importance of participating in the behavioral interventions, counseling, and/or support services to be used in conjunction with bupropion hydrochloride extended-release tablets (SR) [see Medication Guide].

Patients who fail to quit smoking during an attempt may benefit from interventions to improve their chances for success on subsequent attempts. Patients who are unsuccessful should be evaluated to determine why they failed. A new quit attempt should be encouraged when factors that contributed to failure can be eliminated or reduced, and conditions are more favorable.

2.4 Maintenance

Tobacco dependence is a chronic condition. Some patients may need ongoing treatment. Whether to continue treatment with bupropion hydrochloride extended-release tablets (SR) for periods longer than 12 weeks for smoking cessation must be determined for individual patients.

${\bf 2.5~Combination~Treatment~with~Bupropion~Hydrochloride~Extended-Release~Tablets~(SR)~and~a~Nicotine~Transdermal~System~(NTS)}$

Combination treatment with bupropion hydrochloride extended-release tablets (SR) and NTS may be prescribed for smoking cessation. The prescriber should review the complete prescribing information for both bupropion hydrochloride extended-release tablets (SR) and NTS before using combination treatment [see Clinical Studies (14)]. Monitoring for treatment-emergent hypertension in patients treated with the combination of bupropion hydrochloride extended-release tablets (SR) and NTS is recommended.

2.6 Dose Adjustment in Patients with Hepatic Impairment

In patients with moderate to severe hepatic impairment (Child-Pugh score: 7 to 15), the maximum dose should not exceed 150 mg every other day. In patients with mild hepatic impairment (Child-Pugh score: 5 to 6), consider reducing the dose and/or frequency of dosing [see Use in Specific Populations (8.7), Clinical Pharmacology (12.3)].

2.7 Dose Adjustment in Patients with Renal Impairment

Consider reducing the dose and/or frequency of bupropion hydrochloride extended-release tablets (SR) in patients with renal impairment (Glomerular Filtration Rate less than 90 mL per min) [see Use in Specific Populations (8.6), Clinical Pharmacology (12.3)].

2.8 Use of Bupropion Hydrochloride Extended-Release Tablets (SR) with Reversible MAOIs Such as Linezolid or Methylene Blue

Do not start bupropion hydrochloride extended-release tablets (SR) in a patient who is being treated with a reversible MAOI such as linezolid or intravenous methylene blue. Drug interactions can increase the risk of hypertensive reactions [see Contraindications (4), Drug Interactions (7.6)].

In some cases, a patient already receiving therapy with bupropion hydrochloride

extended-release tablets (SR) may require urgent treatment with linezolid or intravenous methylene blue. If acceptable alternatives to linezolid or intravenous methylene blue treatment are not available and the potential benefits of linezolid or intravenous methylene blue treatment are judged to outweigh the risks of hypertensive reactions in a particular patient, bupropion hydrochloride extended-release tablets (SR) should be stopped promptly, and linezolid or intravenous methylene blue can be administered. The patient should be monitored for 2 weeks or until 24 hours after the last dose of linezolid or intravenous methylene blue, whichever comes first. Therapy with bupropion hydrochloride extended-release tablets (SR) may be resumed 24 hours after the last dose of linezolid or intravenous methylene blue.

The risk of administering methylene blue by non-intravenous routes (such as oral tablets or by local injection) or in intravenous doses much lower than 1 mg per kg with bupropion hydrochloride extended-release tablets (SR) is unclear. The clinician should, nevertheless, be aware of the possibility of a drug interaction with such use [see Contraindications (4), Drug Interactions (7.6)].

3 DOSAGE FORMS AND STRENGTHS

150~mg - purple, film coated, round, biconvex tablets, debossed with "YH" and "111" on one side and plain on the other side.

4 CONTRAINDICATIONS

- Bupropion Hydrochloride Extended-Release Tablets (SR) are contraindicated in patients with a seizure disorder.
- Bupropion Hydrochloride Extended-Release Tablets (SR) are contraindicated in
 patients with a current or prior diagnosis of bulimia or anorexia nervosa as a higher
 incidence of seizures was observed in such patients treated with the immediaterelease formulation of bupropion [see Warnings and Precautions (5.3)].
- Bupropion Hydrochloride Extended-Release Tablets (SR) are contraindicated in patients undergoing abrupt discontinuation of alcohol, benzodiazepines, barbiturates, and antiepileptic drugs [see Warnings and Precautions (5.3), Drug Interactions (7.3)]
- The use of MAOIs (intended to treat psychiatric disorders) concomitantly with Bupropion Hydrochloride Extended-Release Tablets (SR) or within 14 days of discontinuing treatment with Bupropion Hydrochloride Extended-Release Tablets (SR) is contraindicated. There is an increased risk of hypertensive reactions when Bupropion Hydrochloride Extended-Release Tablets (SR) are used concomitantly with MAOIs. The use of Bupropion Hydrochloride Extended-Release Tablets (SR) within 14 days of discontinuing treatment with an MAOI is also contraindicated. Starting Bupropion Hydrochloride Extended-Release Tablets (SR) in a patient treated with reversible MAOIs such as linezolid or intravenous methylene blue is contraindicated [see Dosage and Administration (2.8), Warnings and Precautions (5.4), Drug Interactions (7.6)].
- Bupropion Hydrochloride Extended-Release Tablets (SR) are contraindicated in patients with a known hypersensitivity to bupropion or other ingredients of Bupropion Hydrochloride Extended-Release Tablets (SR). Anaphylactoid/anaphylactic reactions and Stevens-Johnson syndrome have been reported [see Warnings and Precautions (5.8)].

5 WARNINGS AND PRECAUTIONS

5.1 Suicidal Thoughts and Behaviors in Children, Adolescents, and Young Adults

Although bupropion hydrochloride extended-release tablets (SR) are not indicated for treatment of depression, it contains the same active ingredient as the antidepressant medications WELLBUTRIN $^{\$}$, WELLBUTRIN SR $^{\$}$, and WELLBUTRIN XL $^{\$}$. Antidepressants increased the risk of suicidal thoughts and behavior in children, adolescents, and young adults in short-term trials.

Patients with major depressive disorder (MDD), both adult and pediatric, may experience worsening of their depression and/or the emergence of suicidal ideation and behavior (suicidality) or unusual changes in behavior, whether or not they are taking antidepressant medications, and this risk may persist until significant remission occurs. Suicide is a known risk of depression and certain other psychiatric disorders, and these

disorders themselves are the strongest predictors of suicide. There has been a longstanding concern that antidepressants may have a role in inducing worsening of depression and the emergence of suicidality in certain patients during the early phases of treatment.

Pooled analyses of short-term placebo-controlled trials of antidepressant drugs (selective serotonin reuptake inhibitors [SSRIs] and others) show that these drugs increase the risk of suicidal thinking and behavior (suicidality) in children, adolescents, and young adults (ages 18 to 24) with MDD and other psychiatric disorders. Short-term clinical trials did not show an increase in the risk of suicidality with antidepressants compared with placebo in adults beyond age 24; there was a reduction with antidepressants compared with placebo in adults aged 65 and older.

The pooled analyses of placebo-controlled trials in children and adolescents with MDD, obsessive compulsive disorder (OCD), or other psychiatric disorders included a total of 24 short-term trials of 9 antidepressant drugs in over 4,400 subjects. The pooled analyses of placebo-controlled trials in adults with MDD or other psychiatric disorders included a total of 295 short-term trials (median duration of 2 months) of 11 antidepressant drugs in over 77,000 subjects. There was considerable variation in risk of suicidality among drugs, but a tendency toward an increase in the younger subjects for almost all drugs studied. There were differences in absolute risk of suicidality across the different indications, with the highest incidence in MDD. The risk differences (drug vs. placebo), however, were relatively stable within age strata and across indications. These risk differences (drug-placebo difference in the number of cases of suicidality per 1,000 subjects treated) are provided in Table 1.

Table 1. Risk Differences in the Number of Suicidality Cases by Age Group in the Pooled Placebo-Controlled Trials of Antidepressants in Pediatric and Adult Subjects

Age Range	Drug-Placebo Difference in Number of Cases of Suicidality per 1,000 Subjects Treated
Increases Compa	ared with Placebo
<18	14 additional cases
18 to 24	5 additional cases
Decreases Comp	ared with Placebo
25 to 64	1 fewer case
≥65	6 fewer cases

No suicides occurred in any of the pediatric trials. There were suicides in the adult trials, but the number was not sufficient to reach any conclusion about drug effect on suicide.

It is unknown whether the suicidality risk extends to longer-term use, i.e., beyond several months. However, there is substantial evidence from placebo-controlled maintenance trials in adults with depression that the use of antidepressants can delay the recurrence of depression.

All patients being treated with antidepressants for any indication should be monitored appropriately and observed closely for clinical worsening, suicidality, and unusual changes in behavior, especially during the initial few months of a course of drug therapy, or at times of dose changes, either increases or decreases [see Boxed Warning].

The following symptoms, anxiety, agitation, panic attacks, insomnia, irritability, hostility, aggressiveness, impulsivity, akathisia (psychomotor restlessness), hypomania, and mania, have been reported in adult and pediatric patients being treated with antidepressants for major depressive disorder as well as for other indications, both psychiatric and nonpsychiatric. Although a causal link between the emergence of such symptoms and either the worsening of depression and/or the emergence of suicidal impulses has not been established, there is concern that such symptoms may represent precursors to emerging suicidality.

Consideration should be given to changing the therapeutic regimen, including possibly discontinuing the medication, in patients whose depression is persistently worse, or who are experiencing emergent suicidality or symptoms that might be precursors to worsening depression or suicidality, especially if these symptoms are severe, abrupt in onset, or were not part of the patient's presenting symptoms.

Families and caregivers of patients being treated with antidepressants for MDD or other indications, both psychiatric and nonpsychiatric, should be alerted about the need to monitor patients for the emergence of agitation, irritability, unusual changes in behavior, and the other symptoms described above, as well as the emergence of suicidality, and to report such symptoms

immediately to healthcare providers. Such monitoring should include daily observation by families and caregivers. Prescriptions for bupropion hydrochloride extended-release tablets (SR) should be written for the smallest quantity of tablets consistent with good patient management, in order to reduce the risk of overdose.

5.2 Neuropsychiatric Adverse Events and Suicide Risk in Smoking Cessation Treatment

Serious neuropsychiatric adverse events have been reported in patients taking bupropion hydrochloride extended-release tablets (SR) for smoking cessation. These postmarketing reports have included changes in mood (including depression and mania), psychosis, hallucinations, paranoia, delusions, homicidal ideation, aggression, hostility, agitation, anxiety, and panic, as well as suicidal ideation, suicide attempt, and completed suicide [see Adverse Reactions (6.2)]. Some patients who stopped smoking may have been experiencing symptoms of nicotine withdrawal, including depressed mood. Depression, rarely including suicidal ideation, has been reported in smokers undergoing a smoking cessation attempt without medication. However, some of these adverse events occurred in patients taking bupropion hydrochloride extended-release tablets (SR) who continued to smoke.

Neuropsychiatric adverse events occurred in patients without and with pre-existing psychiatric disease; some patients experienced worsening of their psychiatric illness. Observe patients for the occurrence of neuropsychiatric adverse events. Advise patients and caregivers that the patient should stop taking bupropion hydrochloride extended-release tablets (SR) and contact a healthcare provider immediately if agitation, depressed mood, or changes in behavior or thinking that are not typical for the patient are observed, or if the patient develops suicidal ideation or suicidal behavior. The healthcare provider should evaluate the severity of the adverse events and the extent to which the patient is benefiting from treatment, and consider options including continued treatment under closer monitoring or discontinuing treatment. In many postmarketing cases, resolution of symptoms after discontinuation of bupropion hydrochloride extended-release tablets (SR) was reported. However, the symptoms persisted in some cases; therefore, ongoing monitoring and supportive care should be provided until symptoms resolve.

The neuropsychiatric safety of bupropion hydrochloride extended-release tablets (SR) was evaluated in a randomized, double-blind, active- and placebo-controlled study that included patients without a history of psychiatric disorder (nonpsychiatric cohort, n=3,912) and patients with a history of psychiatric disorder (psychiatric cohort n=4,003). In the non-psychiatric cohort, bupropion hydrochloride extended-release tablets (SR) were not associated with an increase composite of the following neuropsychiatric (NPS) adverse events: severe events of anxiety, depression, feeling abnormal, or hostility, and moderate or severe events of agitation, aggression, delusions, hallucinations, homicidal ideation, mania, panic, and irritability. In the psychiatric cohort, there were more events reported in each treatment group compared with the non-psychiatric cohort and the incidence of events in the composite endpoint was higher for bupropion hydrochloride extended-release tablets (SR) compared with placebo: Risk Difference (95% CI) vs. placebo was 2.2% (-0.5, 4.9) for bupropion hydrochloride extended-release tablets (SR).

In the non-psychiatric cohort, neuropsychiatric adverse events of a serious nature were reported in 0.5% of patients treated with bupropion hydrochloride extended-release tablets (SR) and 0.4% of placebo-treated patients. In the psychiatric cohort, neuropsychiatric events of a serious nature were reported in 0.8% of patients treated with bupropion hydrochloride extended-release tablets (SR), all involving psychiatric hospitalization. In placebo-treated patients, serious neuropsychiatric events occurred in 0.6%, with 0.2% requiring psychiatric hospitalization [see Clinical Studies (14)].

5.3 Seizure

Bupropion hydrochloride extended-release tablets (SR) can cause seizure. The risk of seizure is dose-related. The dose of bupropion hydrochloride extended-release tablets (SR) should not exceed 300 mg per day [see Dosage and Administration (2.1)]. Discontinue bupropion hydrochloride extended-release tablets (SR) and do not restart treatment if the patient experiences a seizure

The risk of seizures is also related to patient factors, clinical situations, and concomitant medications that lower the seizure threshold. Consider these risks before initiating treatment with bupropion hydrochloride extended-release tablets (SR). Bupropion hydrochloride extended-release tablets (SR) are contraindicated in patients with a seizure disorder, current or prior diagnosis of anorexia nervosa or bulimia, or undergoing abrupt discontinuation of alcohol, benzodiazepines, barbiturates, and

antiepileptic drugs [see Contraindications (4), Drug Interactions (7.3)]. The following conditions can also increase the risk of seizure: severe head injury; arteriovenous malformation; CNS tumor or CNS infection; severe stroke; concomitant use of other medications that lower the seizure threshold (e.g., other bupropion products, antipsychotics, tricyclic antidepressants, theophylline, and systemic corticosteroids), metabolic disorders (e.g., hypoglycemia, hyponatremia, severe hepatic impairment, and hypoxia), use of illicit drugs (e.g., cocaine), or abuse or misuse of prescription drugs such as CNS stimulants. Additional predisposing conditions include diabetes mellitus treated with oral hypoglycemic drugs or insulin; use of anorectic drugs; and excessive use of alcohol, benzodiazepines, sedative/hypnotics, or opiates.

Incidence of Seizure with Bupropion Use

Doses for smoking cessation should not exceed 300 mg per day. The seizure rate associated with doses of sustained-release bupropion in depressed patients up to 300 mg per day is approximately 0.1% (1/1,000) and increases to approximately 0.4% (4/1,000) at doses up to 400 mg per day.

The risk of seizure can be reduced if the dose of bupropion hydrochloride extended-release tablets (SR) for smoking cessation does not exceed 300 mg per day, given as 150 mg twice daily, and titration rate is gradual.

5.4 Hypertension

Treatment with bupropion hydrochloride extended-release tablets (SR) can result in elevated blood pressure and hypertension. Assess blood pressure before initiating treatment with bupropion hydrochloride extended-release tablets (SR) and monitor periodically during treatment. The risk of hypertension is increased if bupropion hydrochloride extended-release tablets (SR) are used concomitantly with MAOIs or other drugs that increase dopaminergic or noradrenergic activity [see Contraindications (4)].

Data from a comparative trial of bupropion hydrochloride extended-release tablets (SR), NTS, the combination of bupropion hydrochloride extended-release tablets (SR) plus NTS, and placebo as an aid to smoking cessation suggest a higher incidence of treatment-emergent hypertension in patients treated with the combination of bupropion hydrochloride extended-release tablets (SR) and NTS. In this trial, 6.1% of subjects treated with the combination of bupropion hydrochloride extended-release tablets (SR) and NTS had treatment-emergent hypertension compared with 2.5%, 1.6%, and 3.1% of subjects treated with bupropion hydrochloride extended-release tablets (SR), NTS, and placebo, respectively. The majority of these subjects had evidence of pre-existing hypertension. Three subjects (1.2%) treated with the combination of bupropion hydrochloride extended-release tablets (SR) and NTS and 1 subject (0.4%) treated with NTS had study medication discontinued due to hypertension compared with none of the subjects treated with bupropion hydrochloride extended-release tablets (SR) or placebo. Monitoring of blood pressure is recommended in patients who receive the combination of bupropion and nicotine replacement.

In a clinical trial of bupropion immediate-release in MDD subjects with stable congestive heart failure (N=36), bupropion was associated with an exacerbation of pre-existing hypertension in 2 subjects, leading to discontinuation of bupropion treatment. There are no controlled trials assessing the safety of bupropion in patients with a recent history of myocardial infarction or unstable cardiac disease.

5.5 Activation of Mania/Hypomania

Antidepressant treatment can precipitate a manic, mixed, or hypomanic episode. The risk appears to be increased in patients with bipolar disorder or who have risk factors for bipolar disorder. There were no reports of activation of psychosis or mania in premarketing clinical trials with bupropion hydrochloride extended-release tablets (SR) conducted in nondepressed smokers. However, events of this nature were seen in patients with pre-existing psychiatric diagnoses in a smoking cessation trial *[see Warnings and Precautions (5.2)]*. Bupropion is not approved for use in treating bipolar depression.

5.6 Psychosis and Other Neuropsychiatric Reactions

Depressed patients treated with bupropion in depression trials have had a variety of neuropsychiatric signs and symptoms, including delusions, hallucinations, psychosis, concentration disturbance, paranoia, and confusion. Some of these patients had a diagnosis of bipolar disorder. In some cases, these symptoms abated upon dose reduction and/or withdrawal of treatment. Instruct patients to contact a healthcare professional if such reactions occur.

In premarketing clinical trials with bupropion hydrochloride extended-release tablets (SR) conducted in non-depressed smokers, the incidence of neuropsychiatric side effects

was generally comparable to placebo. However, in the postmarketing experience, patients taking bupropion hydrochloride extended-release tablets (SR) to quit smoking have reported similar types of neuropsychiatric symptoms to those reported by patients in the clinical trials of bupropion for depression [see Warnings and Precautions (5.2)].

5.7 Angle-Closure Glaucoma

The pupillary dilation that occurs following use of many antidepressant drugs including bupropion may trigger an angle-closure attack in a patient with anatomically narrow angles who does not have a patent iridectomy.

5.8 Hypersensitivity Reactions

Anaphylactoid/anaphylactic reactions have occurred during clinical trials with bupropion. Reactions have been characterized by pruritus, urticaria, angioedema, and dyspnea requiring medical treatment. In addition, there have been rare, spontaneous postmarketing reports of erythema multiforme, Stevens-Johnson syndrome, and anaphylactic shock associated with bupropion. Instruct patients to discontinue bupropion hydrochloride extended-release tablets (SR) and consult a healthcare provider if they develop an allergic or anaphylactoid/anaphylactic reaction (e.g., skin rash, pruritus, hives, chest pain, edema, and shortness of breath) during treatment.

There are reports of arthralgia, myalgia, fever with rash and other serum sickness-like symptoms suggestive of delayed hypersensitivity.

6 ADVERSE REACTIONS

The following adverse reactions are discussed in greater detail in other sections of the labeling:

- Suicidal thoughts and behaviors in adolescents and young adults [see Boxed Warning, Warnings and Precautions (5.1)]
- Neuropsychiatric adverse events and suicide risk in smoking cessation treatment [seeWarnings and Precautions (5.2)]
- Seizure [see Warnings and Precautions (5.3)]
- Hypertension [see Warnings and Precautions (5.4)]
- Activation of mania or hypomania [see Warnings and Precautions (5.5)]
- Psychosis and other neuropsychiatric reactions [see Warnings and Precautions (5.6)]
- Angle-closure glaucoma [see Warnings and Precautions (5.7)]
- Hypersensitivity reactions [see Warnings and Precautions (5.8)]

6.1 Clinical Trials Experience

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

Adverse Reactions Leading to Discontinuation of Treatment

Adverse reactions were sufficiently troublesome to cause discontinuation of treatment in 8% of the 706 subjects treated with bupropion hydrochloride extended-release tablets (SR) and 5% of the 313 patients treated with placebo. The more common events leading to discontinuation of treatment with bupropion hydrochloride extended-release tablets (SR) included nervous system disturbances (3.4%), primarily tremors, and skin disorders (2.4%), primarily rashes.

Commonly Observed Adverse Reactions

The most commonly observed adverse reactions consistently associated with the use of bupropion hydrochloride extended-release tablets (SR) were dry mouth and insomnia. The incidence of dry mouth and insomnia may be related to the dose of bupropion hydrochloride extended-release tablets (SR). The occurrence of these adverse reactions may be minimized by reducing the dose of bupropion hydrochloride extended-release tablets (SR). In addition, insomnia may be minimized by avoiding bedtime doses.

Adverse reactions reported in the dose-response and comparator trials are presented in Table 2 and Table 3, respectively. Reported adverse reactions were classified using a COSTART-based dictionary.

Table 2. Adverse Reactions Reported by at Least 1% of Subjects and at a Greater Frequency than Placebo in the Dose-Response Trial

Adverse Reaction	Hydrochloride Extended-Release Tablets (SR) 100 to 300 mg/day (n=461)%	Placebo (n=150)%
Body (General)		
Neck pain	2	<1
Allergic reaction	1	0
Cardiovascular		
Hot flashes	1	0
Hypertension	1	<1
Digestive		
Dry mouth	11	5
Increased appetite	2	<1
Anorexia	1	<1
Musculoskeletal		
Arthralgia	4	3
Myalgia	2	1
Nervous system		
Insomnia	31	21
Dizziness	8	7
Tremor	2	1
Somnolence	2	1
Thinking abnormality	1	0
Respiratory		
Bronchitis	2	0
Skin		
Pruritus	3	<1
Rash	3	<1
Dry skin	2	0
Urticaria	1	0
Special senses		
Taste perversion	2	<1

Table 3. Adverse Reactions Reported by at Least 1% of Subjects on Active Treatment and at a Greater Frequency than Placebo in the Comparator Trial

Adverse Experience (COSTART Term)		Nicotine Transdermal System (NTS)21 mg/day (n=243)%	Bupropion Hydrochloride Extended- Release Tablets (SR) and NTS (n=244)%	Placebo (n=159)%
Body				
Abdominal	3	4	1	1
pain				
Accidental	2	2	1	1
injury				
Chest pain	<1	1	3	1
Neck pain	2	1	<1	0
Facial edema	<1	0	1	0
Cardiovascular				
Hypertension	1	<1	2	0
Palpitations	2	0	1	0
Digestive				
Nausea	9	7	11	4
Dry mouth	10	4	9	4
Constipation	8	4	9	3
Diarrhea .	4	4	3	1
Anorexia	3	1	5	1
Mouth ulcer	2	1	1	1
Thirst	<1	<1	2	0
Musculoskeleta				
Myalgia	4	3	5	3

Arthralgia	5	3	3	2
Nervous				
system				
Insomnia	40	28	45	18
Dream	5	18	13	3
abnormality				
Anxiety	8	6	9	6
Disturbed	9	3	9	4
concentration				
Dizziness	10	2	8	6
Nervousness	4	<1	2	2
Tremor	1	<1	2	0
Dysphoria	<1	1	2	1
Respiratory				
Rhinitis	12	11	9	8
Increased	3	5	<1	1
cough				
Pharyngitis	3	2	3	0
Sinusitis	2	2	2	1
Dyspnea	1	0	2	1
Epistaxis	2	1	1	0
Skin				
Application	11	17	15	7
site reaction ^a				
Rash	4	3	3	2
Pruritus	3	1	5	1
Urticaria	2	0	2	0
Special senses				
Taste	3	1	3	2
perversion				
Tinnitus	1	0	<1	0

^aSubjects randomized to bupropion hydrochloride extended-release tablets (SR) or placebo received placebo patches.

Adverse reactions in a 1-year maintenance trial and a 12-week COPD trial with bupropion hydrochloride extended-release tablets (SR) were quantitatively and qualitatively similar to those observed in the dose-response and comparator trials.

In the trial of patients without or with a history of psychiatric disorder, the most common adverse events in subjects treated with bupropion hydrochloride extended-release tablets (SR) were broadly similar to those observed in premarketing studies. Adverse events reported in >10% of subjects treated with bupropion hydrochloride extended-release tablets (SR) in the entire study population were nausea, insomnia, and anxiety disorders. Additionally, the following psychiatric adverse events were reported in >2% of patients in either treatment group (bupropion hydrochloride extended-release tablets (SR) vs. placebo) by cohort. For the non-psychiatric cohort, these adverse events were anxiety, nervousness, abnormal dreams, and insomnia. For the psychiatric cohort, these adverse events were agitation, anxiety, panic, abnormal dreams, insomnia, and crying.

Other Adverse Reactions Observed during the Clinical Development of Bupropion

In addition to the adverse reactions noted above, the following adverse reactions have been reported in clinical trials with the sustained-release formulation of bupropion in depressed subjects and in nondepressed smokers, as well as in clinical trials with the immediate-release formulation of bupropion.

Adverse reaction frequencies represent the proportion of subjects who experienced a treatment-emergent adverse reaction on at least one occasion in placebo-controlled trials for depression (n=987) or smoking cessation (n=1,013), or subjects who experienced an adverse reaction requiring discontinuation of treatment in an open-label surveillance trial with bupropion sustained-release tablets (n=3,100). All treatment-emergent adverse reactions are included except those listed in Tables 2 and 3, those listed in other safety-related sections of the prescribing information, those subsumed under COSTART terms that are either overly general or excessively specific so as to be uninformative, those not reasonably associated with the use of the drug, and those that were not serious and occurred in fewer than 2 subjects.

Adverse reactions are further categorized by body system and listed in order of

decreasing frequency according to the following definitions of frequency: Frequent adverse reactions are defined as those occurring in at least 1/100 subjects. Infrequent adverse reactions are those occurring in 1/100 to 1/1,000 subjects, while rare events are those occurring in less than 1/1,000 subjects.

Body (General): Frequent were asthenia, fever, and headache. Infrequent were chills, inguinal hernia, and photosensitivity. Rare was malaise.

Cardiovascular:Infrequent were flushing, migraine, postural hypotension, stroke, tachycardia, and vasodilation. Rare was syncope.

Digestive: Frequent were dyspepsia and vomiting. Infrequent were abnormal liver function, bruxism, dysphagia, gastric reflux, gingivitis, jaundice, and stomatitis.

Hemic and Lymphatic:Infrequent was ecchymosis.

Metabolic and Nutritional:Infrequent were edema and peripheral edema.

Musculoskeletal:Infrequent were leg cramps and twitching.

Nervous System: Frequent were agitation, depression, and irritability. Infrequent were abnormal coordination, CNS stimulation, confusion, decreased libido, decreased memory, depersonalization, emotional lability, hostility, hyperkinesia, hypertonia, hypesthesia, paresthesia, suicidal ideation, and vertigo. Rare were amnesia, ataxia, derealization, and hypomania.

Respiratory: Rare was bronchospasm.

Skin: Frequent was sweating.

Special Senses: Frequent was blurred vision or diplopia. Infrequent were accommodation abnormality and dry eye.

Urogenital: Frequent was urinary frequency. Infrequent were impotence, polyuria, and urinary urgency.

6.2 Postmarketing Experience

The following adverse reactions have been identified during postapproval use of bupropion hydrochloride extended-release tablets (SR) and are not described elsewhere in the label. 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 relationship to drug exposure.

Body(General)

Arthralgia, myalgia, and fever with rash and other symptoms suggestive of delayed hypersensitivity. These symptoms may resemble serum sickness [see Warnings and Precautions (5.8)].

Cardiovascular

Cardiovascular disorder, complete atrioventricular block (AV) block, extrasystoles, hypotension, myocardial infarction, phlebitis, and pulmonary embolism.

Digestive

Colitis, esophagitis, gastrointestinal hemorrhage, gum hemorrhage, hepatitis, increased salivation, intestinal perforation, liver damage, pancreatitis, stomach ulcer, and stool abnormality.

Endocrine

Hyperglycemia, hypoglycemia, hyponatremia, and syndrome of inappropriate antidiuretic hormone secretion.

Hemic and Lymphatic

Anemia, leukocytosis, leukopenia, lymphadenopathy, pancytopenia, and thrombocytopenia. Altered prothrombin time (PT) and/or international normalized ratio (INR), infrequently associated with hemorrhagic or thrombotic complications, were observed when bupropion was coadministered with warfarin.

Metabolic and Nutritional

Glycosuria.

<u>Musculoskeletal</u>

Arthritis and muscle rigidity/fever/rhabdomyolysis, and muscle weakness.

Nervous System

Abnormal electroencephalogram (EEG), aggression, akinesia, aphasia, coma, completed

suicide, delirium, delusions, dysarthria, euphoria, extrapyramidal syndrome (dyskinesia, dystonia, hypokinesia, parkinsonism), hallucinations, increased libido, manic reaction, neuralgia, neuropathy, paranoid ideation, restlessness, suicide attempt, and unmasking tardive dyskinesia.

Respiratory

Pneumonia.

Skin

Alopecia, angioedema, exfoliative dermatitis, hirsutism, and Stevens-Johnson syndrome.

Special Senses

Deafness, increased intraocular pressure, and mydriasis.

Urogenital

Abnormal ejaculation, cystitis, dyspareunia, dysuria, gynecomastia, menopause, painful erection, prostate disorder, salpingitis, urinary incontinence, urinary retention, urinary tract disorder, and vaginitis.

7 DRUG INTERACTIONS

7.1 Potential for Other Drugs to Affect Bupropion Hydrochloride Extended-Release Tablets (SR)

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.

Inhibitors of CYP2B6

Ticlopidine and Clopidogrel:Concomitant treatment with these drugs can increase bupropion exposure but decrease hydroxybupropion exposure. Based on clinical response, dosage adjustment of bupropion hydrochloride extended-release tablets (SR) may be necessary when coadministered with CYP2B6 inhibitors (e.g., ticlopidine or clopidogrel) [see Clinical Pharmacology (12.3)].

Inducers of CYP2B6

Ritonavir, Lopinavir, and Efavirenz:Concomitant treatment with these drugs can decrease bupropion and hydroxybupropion exposure. Dosage increase of bupropion hydrochloride extended-release tablets (SR) may be necessary when coadministered with ritonavir, lopinavir, or efavirenz [see Clinical Pharmacology (12.3)] but should not exceed the maximum recommended dose.

Carbamazepine, Phenobarbital, Phenytoin: While not systematically studied, these drugs may induce the metabolism of bupropion and may decrease bupropion exposure [see Clinical Pharmacology (12.3)]. If bupropion is used concomitantly with a CYP inducer, it may be necessary to increase the dose of bupropion, but the maximum recommended dose should not be exceeded.

7.2 Potential for Bupropion Hydrochloride Extended-Release Tablets (SR) to Affect Other Drugs

Drugs Metabolized by CYP2D6

Bupropion and its metabolites (erythrohydrobupropion, threohydrobupropion, hydroxybupropion) are CYP2D6 inhibitors. Therefore, coadministration of bupropion hydrochloride extended-release tablets (SR) with drugs that are metabolized by CYP2D6 can increase the exposures of drugs that are substrates of CYP2D6. Such drugs include certain antidepressants (e.g., venlafaxine, nortriptyline, imipramine, desipramine, paroxetine, fluoxetine, and sertraline), antipsychotics (e.g., haloperidol, risperidone, thioridazine), beta-blockers (e.g., metoprolol), and Type 1C antiarrhythmics (e.g., propafenone and flecainide). When used concomitantly with bupropion hydrochloride extended-release tablets (SR), it may be necessary to decrease the dose of these CYP2D6 substrates, particularly for drugs with a narrow therapeutic index.

Drugs that require metabolic activation by CYP2D6 to be effective (e.g., tamoxifen) theoretically could have reduced efficacy when administered concomitantly with inhibitors of CYP2D6 such as bupropion. Patients treated concomitantly with bupropion hydrochloride extended-release tablets (SR) and such drugs may require increased doses of the drug [see Clinical Pharmacology (12.3)].

Digoxin

Coadministration of bupropion hydrochloride extended-release tablets (SR) with digoxin

may decrease plasma digoxin levels. Monitor plasma digoxin levels in patients treated concomitantly with bupropion hydrochloride extended-release tablets (SR) and digoxin [see Clinical Pharmacology (12.3)].

7.3 Drugs that Lower Seizure Threshold

Use extreme caution when coadministering bupropion hydrochloride extended-release tablets (SR) with other drugs that lower seizure threshold (e.g., other bupropion products, antipsychotics, antidepressants, theophylline, or systemic corticosteroids). Use low initial doses and increase the dose gradually [see Contraindications (4), Warnings and Precautions (5.3)].

7.4 Dopaminergic Drugs (Levodopa and Amantadine)

Bupropion, levodopa, and amantadine have dopamine agonist effects. CNS toxicity has been reported when bupropion was coadministered with levodopa or amantadine. Adverse reactions have included restlessness, agitation, tremor, ataxia, gait disturbance, vertigo, and dizziness. It is presumed that the toxicity results from cumulative dopamine agonist effects. Use caution when administering bupropion hydrochloride extended-release tablets (SR) concomitantly with these drugs.

7.5 Use with Alcohol

In postmarketing experience, there have been rare reports of adverse neuropsychiatric events or reduced alcohol tolerance in patients who were drinking alcohol during treatment with bupropion hydrochloride extended-release tablets (SR). The consumption of alcohol during treatment with bupropion hydrochloride extended-release tablets (SR) should be minimized or avoided.

7.6 MAO Inhibitors

Bupropion inhibits the reuptake of dopamine and norepinephrine. Concomitant use of MAOIs and bupropion is contraindicated because there is an increased risk of hypertensive reactions if bupropion is used concomitantly with MAOIs. Studies in animals demonstrate that the acute toxicity of bupropion is enhanced by the MAO inhibitor phenelzine. At least 14 days should elapse between discontinuation of an MAOI and initiation of treatment with bupropion hydrochloride extended-release tablets (SR). Conversely, at least 14 days should be allowed after stopping bupropion hydrochloride extended-release tablets (SR) before starting an MAOI intended to treat psychiatric disorders [see Dosage and Administration (2.8), Contraindications (4)].

7.7 Smoking Cessation

Physiological changes resulting from smoking cessation, with or without treatment with bupropion hydrochloride extended-release tablets (SR), may alter the pharmacokinetics or pharmacodynamics of certain drugs (e.g., theophylline, warfarin, insulin) for which dosage adjustment may be necessary.

7.8 Drug-Laboratory Test Interactions

False-positive urine immunoassay screening tests for amphetamines have been reported in patients taking bupropion. This is due to lack of specificity of some screening tests. False-positive test results may result even following discontinuation of bupropion therapy. Confirmatory tests, such as gas chromatography/mass spectrometry, will distinguish bupropion from amphetamines.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Pregnancy Category C.

Risk Summary

Data from epidemiological studies of pregnant women exposed to bupropion in the first trimester indicate no increased risk of congenital malformations overall. All pregnancies, regardless of drug exposure, have a background rate of 2% to 4% for major malformations, and 15% to 20% for pregnancy loss. No clear evidence of teratogenic activity was found in reproductive developmental studies conducted in rats and rabbits; however, in rabbits, slightly increased incidences of fetal malformations and skeletal variations were observed at doses approximately 2 times the maximum recommended human dose (MRHD) and greater and decreased fetal weights were seen at doses three times the MRHD and greater. Bupropion hydrochloride extended-release tablets (SR) should be used during pregnancy only if the potential benefit justifies the potential risk to

the fetus.

Clinical Considerations

Pregnant smokers should be encouraged to attempt cessation using educational and behavioral interventions before pharmacological approaches are used.

Data

Human Data: Data from the international bupropion Pregnancy Registry (675 first trimester exposures) and a retrospective cohort study using the United Healthcare database (1,213 first trimester exposures) did not show an increased risk for malformations overall.

No increased risk for cardiovascular malformations overall has been observed after bupropion exposure during the first trimester. The prospectively observed rate of cardiovascular malformations in pregnancies with exposure to bupropion in the first trimester from the international Pregnancy Registry was 1.3% (9 cardiovascular malformations/675 first trimester maternal bupropion exposures), which is similar to the background rate of cardiovascular malformations (approximately 1%). Data from the United Healthcare database and a case-control study (6,853 infants with cardiovascular malformations and 5,763 with non-cardiovascular malformations) from the National Birth Defects Prevention Study (NBDPS) did not show an increased risk for cardiovascular malformations overall after bupropion exposure during the first trimester.

Study findings on bupropion exposure during the first trimester and risk for left ventricular outflow tract obstruction (LVOTO) are inconsistent and do not allow conclusions regarding a possible association. The United Healthcare database lacked sufficient power to evaluate this association; the NBDPS found increased risk for LVOTO (n=10; adjusted OR=2.6; 95% CI: 1.2, 5.7), and the Slone Epidemiology case control study did not find increased risk for LVOTO.

Study findings on bupropion exposure during the first trimester and risk for ventricular septal defect (VSD) are inconsistent and do not allow conclusions regarding a possible association. The Slone Epidemiology Study found an increased risk for VSD following first trimester maternal bupropion exposure (n=17; adjusted OR=2.5; 95% CI: 1.3, 5.0) but did not find increased risk for any other cardiovascular malformations studied (including LVOTO as above). The NBDPS and United Healthcare database study did not find an association between first trimester maternal bupropion exposure and VSD.

For the findings of LVOTO and VSD, the studies were limited by the small number of exposed cases, inconsistent findings among studies, and the potential for chance findings from multiple comparisons in case control studies.

Animal Data: In studies conducted in rats and rabbits, bupropion was administered orally during the period of organogenesis at doses of up to 450 and 150 mg per kg per day, respectively (approximately 15 and 10 times the MRHD respectively, on a mg per m ²basis). No clear evidence of teratogenic activity was found in either species; however, in rabbits, slightly increased incidences of fetal malformations and skeletal variations were observed at the lowest dose tested (25 mg per kg per day, approximately 2 times the MRHD on a mg per m ²basis) and greater. Decreased fetal weights were observed at 50 mg per kg and greater.

When rats were administered bupropion at oral doses of up to 300 mg per kg per day (approximately 10 times the MRHD on a mg per m ²basis) prior to mating and throughout pregnancy and lactation, there were no apparent adverse effects on offspring development.

8.3 Nursing Mothers

Bupropion and its metabolites are present in human milk. In a lactation study of 10 women, levels of orally dosed bupropion and its active metabolites were measured in expressed milk. The average daily infant exposure (assuming 150 mL per kg daily consumption) to bupropion and its active metabolites was 2% of the maternal weight-adjusted dose. Exercise caution when bupropion hydrochloride extended-release tablets (SR) are administered to a nursing woman.

8.4 Pediatric Use

Safety and effectiveness in the pediatric population have not been established *[see Boxed Warning, Warnings and Precautions (5.1)].*

8.5 Geriatric Use

Of the approximately 6,000 subjects who participated in clinical trials with bupropion sustained-release tablets (depression and smoking cessation trials), 275 were aged ≥65

years and 47 were aged ≥75 years. In addition, several hundred subjects aged ≥65 years participated in clinical trials using the immediate-release formulation of bupropion (depression trials). No overall differences in safety or effectiveness were observed between these subjects and younger subjects. Reported clinical experience has not identified differences in responses between the elderly and younger patients, but greater sensitivity of some older individuals cannot be ruled out.

Bupropion is extensively metabolized in the liver to active metabolites, which are further metabolized and excreted by the kidneys. The risk of adverse reactions may be greater in patients with impaired renal function. Because elderly patients are more likely to have decreased renal function, it may be necessary to consider this factor in dose selection; it may be useful to monitor renal function [see Dosage and Administration (2.7), Use in Specific Populations (8.6), Clinical Pharmacology (12.3)].

8.6 Renal Impairment

Consider a reduced dose and/or dosing frequency of bupropion hydrochloride extended-release tablets (SR) in patients with renal impairment (Glomerular Filtration Rate: less than 90 mL per min). Bupropion and its metabolites are cleared renally and may accumulate in such patients to a greater extent than usual. Monitor closely for adverse reactions that could indicate high bupropion or metabolite exposures [see Dosage and Administration (2.7), Clinical Pharmacology (12.3)].

8.7 Hepatic Impairment

In patients with moderate to severe hepatic impairment (Child-Pugh score: 7 to 15), the maximum dose of bupropion hydrochloride extended-release tablets (SR) is 150 mg every other day. In patients with mild hepatic impairment (Child-Pugh score: 5 to 6), consider reducing the dose and/or frequency of dosing [see Dosage and Administration (2.6), Clinical Pharmacology (12.3)].

9 DRUG ABUSE AND DEPENDENCE

9.1 Controlled Substance

Bupropion is not a controlled substance.

9.2 Abuse

Humans

Controlled clinical trials conducted in normal volunteers, in subjects with a history of multiple drug abuse, and in depressed subjects showed some increase in motor activity and agitation/excitement, often typical of central stimulant activity.

In a population of individuals experienced with drugs of abuse, a single oral dose of 400 mg of bupropion produced mild amphetamine-like activity as compared with placebo on the Morphine-Benzedrine Subscale of the Addiction Research Center Inventories (ARCI) and a score greater than placebo but less than 15 mg of the Schedule II stimulant dextroamphetamine on the Liking Scale of the ARCI. These scales measure general feelings of euphoria and drug liking which are often associated with abuse potential.

Findings in clinical trials, however, are not known to reliably predict the abuse potential of drugs. Nonetheless, evidence from single-dose trials does suggest that the recommended daily dosage of bupropion when administered orally in divided doses is not likely to be significantly reinforcing to amphetamine or CNS stimulant abusers. However, higher doses (which could not be tested because of the risk of seizure) might be modestly attractive to those who abuse CNS stimulant drugs.

Bupropion hydrochloride extended-release tablets (SR) are intended for oral use only. The inhalation of crushed tablets or injection of dissolved bupropion has been reported. Seizures and/or cases of death have been reported when bupropion has been administered intranasally or by parenteral injection.

Animals

Studies in rodents and primates demonstrated that bupropion exhibits some pharmacologic actions common to psychostimulants. In rodents, it has been shown to increase locomotor activity, elicit a mild stereotyped behavior response, and increase rates of responding in several schedule-controlled behavior paradigms. In primate models assessing the positive reinforcing effects of psychoactive drugs, bupropion was self-administered intravenously. In rats, bupropion produced amphetamine-like and cocaine-like discriminative stimulus effects in drug discrimination paradigms used to characterize the subjective effects of psychoactive drugs.

The possibility that bupropion may induce dependence should be kept in mind when evaluating the desirability of including the drug in smoking cessation programs of individual patients.

10 OVERDOSAGE

10.1 Human Overdose Experience

Overdoses of up to 30 grams or more of bupropion have been reported. Seizure was reported in approximately one-third of all cases. Other serious reactions reported with overdoses of bupropion alone included hallucinations, loss of consciousness, mental status changes, sinus tachycardia, ECG changes such as conduction disturbances (including QRS prolongation) or arrhythmias, clonus, myoclonus, and hyperreflexia. Fever, muscle rigidity, rhabdomyolysis, hypotension, stupor, coma, and respiratory failure have been reported mainly when bupropion was part of multiple drug overdoses.

Although most patients recovered without sequelae, deaths associated with overdoses of bupropion alone have been reported in patients ingesting large doses of the drug. Multiple uncontrolled seizures, bradycardia, cardiac failure, and cardiac arrest prior to death were reported in these patients.

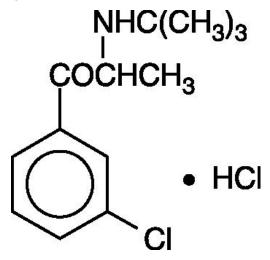
10.2 Overdosage Management

Consult a Certified Poison Control Center for up-to-date guidance and advice. Telephone numbers for certified poison control centers are listed in the Physicians' Desk Reference (PDR). Call 1-800-222-1222 or refer to www.poison.org.

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 SECTION

Bupropion Hydrochloride Extended-Release Tablets, USP (SR) are a non-nicotine aid to smoking cessation. Bupropion Hydrochloride Extended-Release Tablets, USP (SR) are chemically unrelated to nicotine or other agents currently used in the treatment of nicotine addiction. Initially developed and marketed as an antidepressant (WELLBUTRIN $^{\text{@}}$ [bupropion hydrochloride] tablets and WELLBUTRIN SR $^{\text{@}}$ [bupropion hydrochloride] sustained-release tablets), Bupropion Hydrochloride Extended-Release Tablets, USP (SR) are also chemically unrelated to tricyclic, tetracyclic, selective serotonin re-uptake inhibitor, 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-[(1,1-dimethylethyl)amino]-1-propanone hydrochloride. The molecular weight is 276.2. The molecular formula is C $_{13}$ H $_{18}$ ClNO •HCl. Bupropion hydrochloride powder is white, crystalline, and highly soluble in water. It has a bitter taste and produces the sensation of local anesthesia on the oral mucosa. The structural formula



Bupropion Hydrochloride Extended-Release Tablets, USP (SR) are supplied for oral administration as 150-mg (purple), film-coated, extended-release tablets. Each tablet contains the labeled amount of bupropion hydrochloride and the inactive ingredients: colloidal silicon dioxide, hydroxypropyl cellulose, L-cysteine hydrochloride monohydrate,

magnesium stearate, microcrystalline cellulose, polyethylene glycol, polyvinyl alcohol-part hydrolyzed, povidone, talc and titanium dioxide. In addition, the 150-mg tablet contains FD&C Blue No. 2 aluminum lake and FD&C Red No. 40 aluminum lake.

FDA approved dissolution test specifications differ from USP.

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 noradrenergic and/or dopaminergic mechanisms. Bupropion is a relatively weak inhibitor of the neuronal reuptake of 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 (\pm SD) of bupropion after chronic dosing is 21 (\pm 9) hours, and steady-state plasma concentrations of bupropion are reached within 8 days.

Absorption

The absolute bioavailability of bupropion hydrochloride extended-release tablets (SR) 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), peak plasma concentration (C $_{\rm max}$) of bupropion is usually achieved within 3 hours.

Bupropion hydrochloride extended-release tablets (SR) can be taken with or without food. Bupropion C $_{\rm max}$ and AUC were increased by 11% to 35%, and 16% to 19%, respectively, when bupropion hydrochloride extended-release tablets (SR) were 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 mcg 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 threohydrobupropion metabolite is about half that seen with bupropion.

<u>Metabolism</u>

Bupropion is extensively metabolized in humans. Three metabolites are active: hydroxybupropion, which is formed via hydroxylation of the tert-butyl group of bupropion, and the amino-alcohol isomers, threohydrobupropion and erythrohydrobupropion, 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 threohydrobupropion. Oxidation of the bupropion side chain results in the formation of a glycine conjugate of meta-chlorobenzoic acid, 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 mice that hydroxybupropion is one-half as potent as bupropion, while threohydrobupropion and erythrohydrobupropion 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 $_{\rm max}$ 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 times to peak concentrations for the erythrohydrobupropion and threohydrobupropion metabolites are similar 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 14 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 inter-trial comparison between normal subjects and subjects with end-stage renal failure demonstrated that the parent drug C maxand AUC values were comparable in the 2 groups, whereas the hydroxybupropion and threohydrobupropion metabolites had a 2.3- and 2.8-fold increase, respectively, in AUC for subjects with end-stage renal failure. A second trial, comparing normal subjects and 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 threo/erythrohydrobupropion (combined) metabolites were similar in the 2 groups. Bupropion is extensively metabolized 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 alcoholic 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 bupropion and hydroxybupropion were more variable and tended to be greater (by 53% 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 in 9 subjects with mild-to-moderate hepatic cirrhosis compared with 8 healthy volunteers. However, more variability was observed in some of the pharmacokinetic parameters for bupropion (AUC, C $_{\rm max}$, and T $_{\rm max}$) and its active metabolites (t $_{12}$) 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 max	AUC	t 1/2	T max ^a
1.69	3.12	1.43	0.5 h
0.31	1.28	3.88	19 h
0.69	2.48	1.96	20 h
	1.69 0.31	1.69 3.12 0.31 1.28	1.69 3.12 1.43 0.31 1.28 3.88

^aDifference.

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 a single 150-mg dose of bupropion hydrochloride extended-release tablets (SR), there were no statistically significant differences in C $_{\rm max}$, half-life, T $_{\rm max}$, AUC, or clearance of bupropion or its major metabolites between smokers and nonsmokers.

In a trial comparing the treatment combination of bupropion hydrochloride extendedrelease 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 on x-ray), 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 depression efficacy trials involving subjects dosed in a range of 300 to 750 mg per day, on a 3times-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 Interaction 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 vitrostudies suggest that paroxetine, sertraline, norfluoxetine, fluvoxamine, and nelfinavir inhibit 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 $_{\rm max}$ and AUC) of bupropion by 40% and 60% for clopidogrel, and by 38% and 85% for ticlopidine, respectively. The exposures (C $_{\rm max}$ 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.

<code>Prasugrel</code>:Prasugrel is a weak inhibitor of CYP2B6. In healthy subjects, prasugrel increased bupropion C $_{
m max}$ and AUC values by 14% and 18%, respectively, and decreased C $_{
m max}$ and AUC values of hydroxybupropion, an active metabolite of bupropion, by 32% and 24%, respectively.

Cimetidine: The threohydrobupropion 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 $_{\rm max}$, respectively, of the combined moieties of threohydrobupropion and erythrohydrobupropion.

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 $_{\rm max}$ of bupropion by 22% and 21%, respectively. The exposure of the hydroxybupropion metabolite was decreased by 23%, the threohydrobupropion decreased by 38%, and the erythrohydrobupropion decreased by 48%.

In a second healthy volunteer trial, ritonavir at a dose of 600 mg twice daily decreased the AUC and the C $_{\rm max}$ of bupropion by 66% and 62%, respectively. The exposure of the hydroxybupropion metabolite was decreased by 78%, the threohydrobupropion decreased by 50%, and the erythrohydrobupropion decreased by 68%.

In another healthy volunteer trial, lopinavir 400 mg/ritonavir 100 mg twice daily decreased bupropion AUC and C $_{
m max}$ by 57%. The AUC and C $_{
m max}$ of hydroxybupropion

were decreased by 50% and 31%, respectively.

<code>Efavirenz:In</code> a trial in healthy volunteers, efavirenz 600 mg once daily for 2 weeks reduced the AUC and C $_{
m max}$ of bupropion by approximately 55% and 34%, respectively. The AUC of hydroxybupropion was unchanged, whereas C $_{
m max}$ of hydroxybupropion was increased by 50%.

Carbamazepine, Phenobarbital, Phenytoin: 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 data 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.

Drugs Metabolized by CYP2D6: In vitro, bupropion and its metabolites (erythrohydrobupropion, threohydrobupropion, 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 $_{\rm max}$, AUC, and t1/2 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.

 $\it Citalopram:$ Although citalopram is not primarily metabolized by CYP2D6, in one trial bupropion increased the C $\it max$ 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 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Lifetime carcinogenicity studies were performed in rats and mice at bupropion doses up to 300 and 150 mg per kg per day, respectively. These doses are approximately 10 and 2 times the MRHD, respectively, on a mg per m ²basis. 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 ²basis); 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 efficacy of bupropion hydrochloride extended-release tablets (SR) as an aid to smoking cessation was demonstrated in 3 placebo-controlled, double-blind trials in nondepressed chronic cigarette smokers (n=1,940, greater than or equal to 15 cigarettes per day). In these trials, bupropion hydrochloride extended-release tablets (SR) were used in conjunction with individual smoking cessation counseling.

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; quitting 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) demonstrated a dose-dependent increase in the percentage of subjects able to achieve 4-week abstinence (Weeks 4 through 7). Treatment with bupropion hydrochloride extended-release tablets (SR) at both 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 are the proportions of all subjects initially enrolled (i.e., 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

	Treatment Groups				
	Bupropion Bupropion Buprop				
	Hydrochloride Hydrochloride Hydrochl			Hydrochloride	
		Extended- Release	Extended- Release	Extended- Release	
		Tablets (SR)	Tablets (SR)	Tablets (SR)	
	Placebo	100 mg/day	150 mg/day	300 mg/day	
	(n=151)	(n=153)	(n=153)	(n=156)	
Abstinence from Week 4	%(95%	%	%	%	
through Specified Week	CI)	(95% CI)	(95% CI)	(95% CI)	
Week 7 (4-week quit)	17%	22%	27% ^a	36% ^a	
	(11 to	(15 to 28)	(20 to 35)	(28 to 43)	
	23)				
Week 12	14%	20%	20%	25% ^a	
	(8 to 19)	(13 to 26)	(14 to 27)	(18 to 32)	
Week 26	11%	16%	18%	19% ^a	
	(6 to 16)	(11 to 22)	(12 to 24)	(13 to 25)	

^aSignificantly 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 8 and 9 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.

Table 6 presents quit rates over time by treatment group for the comparator trial.

Table 6. Comparator Trial: Quit Rates by Treatment Group

	Treatment Groups					
Abstinence from Week 4 through Specified	Placebo	Nicotine Transdermal System (NTS) 21 mg/day (n=244)% (95%	Bupropion Hydrochloride Extended- Release Tablets (SR)300 mg/day (n=244)%	Bupropion Hydrochloride Extended- Release Tablets (SR)300 mg/day and NTS21 mg/day (n=245)%		
Week	CI)	CI)	(95% CI)	(95% CI)		
Week 7 (4-	23%	36%	49%	58%		
week quit)	(17 to 30)	(30 to 42)	(43 to 56)	(51 to 64)		
Week 10	20%	32%	46%	51%		
	(14 to 26)	(26 to 37)	(39 to 52)	(45 to 58)		

When subjects in this trial were followed out to 1 year, the superiority of bupropion hydrochloride extended-release tablets (SR) and the combination of bupropion hydrochloride extended-release tablets (SR) 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 hydrochloride extended-release tablets (SR) 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 hydrochloride extended-release tablets (SR) 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 hydrochloride extended-release tablets (SR) 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 hydrochloride extended-release tablets (SR) 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 long-term maintenance trial conducted at 5 clinical centers. Subjects 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 bupropion 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 hydrochloride extended-release tablets (SR) than for those switched to placebo (P<0.05; 55% versus 44%).

Quit rates in clinical trials are influenced by the population selected. Quit rates in an unselected population may be lower than the above rates. Quit rates for bupropion hydrochloride extended-release tablets (SR) were similar in subjects with and without prior quit attempts using nicotine replacement therapy.

Treatment with bupropion hydrochloride extended-release tablets (SR) reduced withdrawal symptoms compared with placebo. Reductions on the following withdrawal symptoms were most pronounced: irritability, frustration, or anger; anxiety; difficulty concentrating; restlessness; and depressed mood or negative affect. Depending on the trial and the measure used, treatment with bupropion hydrochloride extended-release tablets (SR) showed evidence of reduction in craving for cigarettes or urge to smoke compared with placebo.

Use in Patients with Chronic Obstructive Pulmonary Disease (COPD)

Bupropion hydrochloride extended-release tablets (SR) were evaluated in a randomized, double-blind, comparator trial of 404 subjects with mild-to-moderate COPD defined as FEV $_{\rm 1}$ greater than or equal to 35%, FEV $_{\rm 1}$ /FVC less than or equal to 70%, and a diagnosis of chronic bronchitis, emphysema, and/or small airways disease. Subjects aged 36 to 76 years were randomized to bupropion hydrochloride extended-release tablets (SR) 300 mg per day (n=204) or placebo (n=200) and treated for 12 weeks. Treatment with bupropion hydrochloride extended-release tablets (SR) was initiated at 150 mg per day for 3 days while the subject was still smoking and increased to 150 mg twice daily for the remaining treatment period. Abstinence from smoking was determined by subject daily diaries and verified by carbon monoxide levels in expired air. Quitters were defined as subjects who were abstinent during the last 4 weeks of treatment. Table 7 shows quit rates in the COPD Trial.

Table 7. COPD Trial: Quit Rates by Treatment Group

	Treatment Groups				
4-Week Abstinence	Bupropion Hydrochloride Placebo(n=200)% (95% Extended-Release Tablets (SI				
Period	CI)	300 mg/day (n=204)% (95% CI)			
Weeks 9 through 12	12%	22% ^a			
	(8 to 16)	(17 to 27)			

^aSignificantly different from placebo (P<0.05).

Postmarketing Neuropsychiatric Safety Outcome Trial

Bupropion hydrochloride extended-release tablets (SR) were evaluated in a randomized,

double-blind, active- and placebo-controlled trial that included subjects without a history of psychiatric disorder (non-psychiatric cohort, n=3,912) and subjects with a history of psychiatric disorder (psychiatric cohort, n=4,003). Subjects aged 18 to 75 years, smoking 10 or more cigarettes per day were randomized 1:1:1:1 to bupropion hydrochloride extended-release tablets (SR) 150 mg twice daily, varenicline 1 mg twice daily, nicotine replacement therapy patch (NRT) 21 mg per day with taper or placebo for a treatment period of 12 weeks; they were then followed for another 12 weeks post-treatment. [see Warnings and Precautions (5.2)].

A composite safety endpoint intended to capture clinically significant neuropsychiatric (NPS) adverse events including the following NPS adverse events: anxiety, depression, feeling abnormal, hostility, agitation, aggression, delusions, hallucinations, homicidal ideation, mania, panic, paranoia, psychosis, irritability, suicidal ideation, suicidal behavior, or completed suicide.

The use of bupropion hydrochloride extended-release tablets (SR), varenicline, and NRT in the non-psychiatric cohort was not associated with an increased risk of clinically significant NPS adverse events compared with placebo (Table 8).

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

TreatmentGroup	Bupropion Hydrochloride Extended- Release Tablets (SR) (n=968) n (%)	Varenicline (n=975) n (%)	NRT (n=987) n (%)	Placebo(n=982)n (%)
Clinically significant NPS	` '	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) n (%)	Varenicline (n=1,007) n (%)	NRT (n=995) n (%)	Placebo (n=997) n (%)
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 no 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

	Bupropion Hydrochloride Extended- Release Tablets (SR) 150 mg b.i.d.	Varenicline	NRT 21 mg/day with Taper	Placebo
Weeks 9 through 12				
Non- Psychiatric Cohort	26% (23%, 29%)	38% (35%, 41%)	26% (24%, 29%)	14% (12%, 16%)
Psychiatric Cohort	19% (17%, 22%)	29% (26%, 32%)	20% (18%, 23%)	11% (10%, 14%)

Weeks 9 through 24

Non- Psychiatric Cohort	19% (16%, 21%)	25% (23%, 28%)	18% (16%, 21%)	11% (9%, 13%)
Psychiatric	14%	18%	13%	8%
Cohort	(12%, 16%)	(16%, 21%)	(11%, 15%)	(7%, 10%)

b.i.d.=Twice daily.

16 HOW SUPPLIED/STORAGE AND HANDLING

Bupropion Hydrochloride Extended-Release Tablets, USP (SR), 150 mg of bupropion hydrochloride, are purple, film coated, round, biconvex tablets, debossed with "YH" and "111" on one side and plain on the other side in bottles of 60 tablets (NDC 42806-413-60).

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

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

Keep out of the reach of children.

17 PATIENT COUNSELING INFORMATION

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

Suicidal Thoughts and Behaviors

Instruct patients, their families, and/or their caregivers to be alert to the emergence of anxiety, agitation, panic attacks, insomnia, irritability, hostility, aggressiveness, impulsivity, akathisia (psychomotor restlessness), hypomania, mania, other unusual changes in behavior, worsening of depression, and suicidal ideation, especially early during antidepressant treatment and when the dose is adjusted up or down. Advise families and caregivers of patients to observe for the emergence of such symptoms on a day-to-day basis, since changes may be abrupt. Such symptoms should be reported to the patient's prescriber or healthcare professional, especially if they are severe, abrupt in onset, or were not part of the patient's presenting symptoms. Symptoms such as these may be associated with an increased risk for suicidal thinking and behavior and indicate a need for very close monitoring and possibly changes in the medication [see Boxed Warning, Warnings and Precautions (5.1)].

Neuropsychiatric Adverse Events and Suicide Risk in Smoking Cessation Treatment

Inform patients that some patients have experienced changes in mood (including depression and mania), psychosis, hallucinations, paranoia, delusions, 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 hydrochloride extended-release tablets (SR).

<u>Seizure</u>

Instruct patients to discontinue bupropion hydrochloride extended-release tablets (SR) and not restart it 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) contain the same active ingredient (bupropion hydrochloride) found in WELLBUTRIN $^{\circledR}$, WELLBUTRIN SR $^{\circledR}$, and WELLBUTRIN XL $^{\circledR}$, 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 $^{\circledR}$, the immediate-release formulation; WELLBUTRIN SR $^{\circledR}$, the sustained-release formulation; WELLBUTRIN XL $^{\circledR}$ or FORFIVO XL $^{\circledR}$, the extended-release formulations; and APLENZIN $^{\circledR}$, 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 until they are reasonably certain that bupropion hydrochloride extended-release tablets (SR) do not adversely affect their performance, they should refrain from driving an automobile or operating complex, hazardous machinery. Bupropion hydrochloride extended-release tablets (SR) 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 others' 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 to swallow bupropion hydrochloride extended-release tablets (SR) whole 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 if they miss a dose, not to take an extra tablet to make up for the missed dose 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.

Brands listed are the trademarks of their respective owners.

Dispense with Medication Guide available at: www.epic-pharma.com/medguide/Bupropion-Hydrochloride-Extended-Release-SR-Tablets.pdf

Manufactured by:

Yichang Humanwell Oral Solid Dosage Plant No. 519 Donglin Road, Yichang, Hubei, China 443112

Distributed by:

Epic Pharma, LLC Laurelton, NY 11413

Revised: 02/2023

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MEDICATION GUIDE

Dispense with Medication Guide available at: www.epic-pharma.com/medguide/Bupropion-Hydrochloride-Extended-Release-SR-Tablets.pdf MEDICATION GUIDE

> Bupropion Hydrochloride (bue proe' pee on hye'' droe klor' ide) Extended-Release Tablets, USP (SR)

IMPORTANT: Be sure to read the three sections of this Medication Guide. The first section is about the risk of changes in thinking and behavior, depression and suicidal thoughts or actions with medicines used to quit smoking; the second section is about the risk of suicidal thoughts and actions with antidepressant medicines; and the third section is entitled "What Other Important Information Should I Know About Bupropion Hydrochloride Extended-Release Tablets (SR)?"

Quitting Smoking, Quit-Smoking Medications, Changes in Thinking and Behavior, Depression, and Suicidal Thoughts or Actions

This section of the Medication Guide is only about the risk of changes in thinking and behavior, depression and suicidal thoughts or actions with drugs used to quit smoking. **Talk to your healthcare provider or your family member's healthcare provider about:**

- all risks and benefits of guit-smoking medicines.
- all treatment choices for quitting smoking.

When you try to quit smoking, with or without bupropion hydrochloride extended-release tablets (SR), you may have symptoms that may be due to nicotine withdrawal, including:

urge to smokefrustrationrestlessness

depressed moodangerdecreased heart rate

trouble sleeping
 feeling anxious
 increased appetite

irritabilitydifficulty concentratingweight gain

Some people have even experienced suicidal thoughts when trying to quit smoking without medication. Sometimes quitting smoking can lead to worsening of mental health problems that you already have, such as depression.

Some people have had serious side effects while taking bupropion hydrochloride extended-release tablets (SR) to help them quit smoking, including:

New or worse mental health problems, such as changes in behavior or thinking, aggression, hostility, agitation, depression, suicidal thoughts or actions. Some people had these symptoms when they began taking bupropion hydrochloride extended-release tablets (SR), and others developed them after several weeks of treatment, or after stopping bupropion hydrochloride extended-release tablets (SR). These symptoms happened more often in people who had a history of mental health problems before taking bupropion hydrochloride extended-release tablets (SR) than in people without a history of mental health problems.

Stop taking bupropion hydrochloride extended-release tablets (SR) and call your healthcare provider right away if you, your family, or caregiver notices any of these symptoms. Work with your healthcare provider to decide whether you should continue to take bupropion hydrochloride extended-release tablets (SR). In many people, these symptoms went away after stopping bupropion hydrochloride extended-release tablets (SR), but in some people symptoms continued after stopping bupropion hydrochloride extended-release tablets (SR). It is important for you to follow-up with your healthcare provider until your symptoms go away. Before taking bupropion hydrochloride extended-release tablets (SR), tell your healthcare provider if you have ever had depression or other mental health problems. You should also tell your healthcare provider about any symptoms you had during other times you tried to quit smoking, with or without bupropion hydrochloride extended-release tablets (SR).

Antidepressant Medicines, Depression and Other Serious Mental Illnesses, and Suicidal Thoughts or Actions
Although bupropion hydrochloride extended-release tablets (SR) are not a treatment for depression, it contains bupropion, the

same active ingredient as the antidepressant medications WELLBUTRIN [®], WELLBUTRIN SR [®], and WELLBUTRIN XL [®]. This section of the Medication Guide is only about the risk of suicidal thoughts and actions with antidepressant medicines. What is the most important information I should know about antidepressant medicines, depression and other serious mental illnesses, and suicidal thoughts or actions?

- 1. Antidepressant medicines may increase suicidal thoughts or actions in some children, teenagers, or young adults within the first few months of treatment.
- 2. Depression or other serious mental illnesses are the most important causes of suicidal thoughts and actions. Some people may have a particularly high risk of having suicidal thoughts or actions. These include people who have (or have a family history of) bipolar illness (also called manic-depressive illness) or suicidal thoughts or actions.
- 3. How can I watch for and try to prevent suicidal thoughts and actions in myself or a family member?
- Pay close attention to any changes, especially sudden changes, in mood, behaviors, thoughts, or feelings. This is very important when an antidepressant medicine is started or when the dose is changed.
- Call your healthcare provider right away to report new or sudden changes in mood, behavior, thoughts, or feelings.
- Keep all follow-up visits with your healthcare provider as scheduled. Call the healthcare provider between visits as needed, especially if you have concerns about symptoms.

Call your healthcare provider right away if you or your family member has any of the following symptoms, especially if they are new, worse, or worry you:

- thoughts about suicide or dying
- attempts to commit suicide
- new or worse depression
- · new or worse anxiety
- feeling very agitated or restless
- panic attacks

- trouble sleeping (insomnia)
- new or worse irritability
- acting aggressive, being angry, or violent
- acting on dangerous impulses
- an extreme increase in activity and talking (mania)
- other unusual changes in behavior or mood

What else do I need to know about antidepressant medicines?

- Never stop an antidepressant medicine without first talking to a healthcare provider. Stopping an antidepressant medicine suddenly can cause other symptoms.
- Antidepressants are medicines used to treat depression and other illnesses. It is important to discuss all the risks of treating depression and also the risks of not treating it. Patients and their families or other caregivers should discuss all treatment choices with the healthcare provider, not just the use of antidepressants
- Antidepressant medicines have other side effects. Talk to the healthcare provider about the side effects of the medicine prescribed for you or your family member.
- Antidepressant medicines can interact with other medicines. Know all of the medicines that you or your family member takes. Keep a list of all medicines to show the healthcare provider. Do not start new medicines without first checking with your healthcare provider.

It is not known if bupropion hydrochloride extended-release tablets (SR) are safe and effective in children under the age of 18.

What Other Important Information Should I Know About Bupropion Hydrochloride Extended-Release Tablets (SR)?

- Seizures: There is a chance of having a seizure (convulsion, fit) with bupropion hydrochloride extendedrelease tablets (SR), especially in people:
 - with certain medical problems.
 - who take certain medicines.

The chance of having seizures increases with higher doses of bupropion hydrochloride extended-release tablets (SR). For more information, see the sections "Who should not take bupropion hydrochloride extended-release tablets (SR)?" and "What should I tell my healthcare provider before taking bupropion hydrochloride extended-release tablets (SR)?" Tell your healthcare provider about all of your medical conditions and all the medicines you take. Do not take any other medicines while you are taking bupropion hydrochloride extended-release tablets (SR) unless your healthcare provider has said it is okay to take them.

If you have a seizure while taking bupropion hydrochloride extended-release tablets (SR), stop taking the tablets and call your healthcare provider right away. Do not take bupropion hydrochloride extended-release tablets (SR) again if you have a seizure.

- High blood pressure (hypertension). Some people get high blood pressure that can be severe, while taking bupropion hydrochloride extended-release tablets (SR). The chance of high blood pressure may be higher if you also use nicotine replacement therapy (such as a nicotine patch) to help you stop smoking (see the section of this Medication Guide called "How should I take bupropion hydrochloride extended-release tablets (SR)?").
- Manic episodes. Some people may have periods of mania while taking bupropion hydrochloride extended-release tablets (SR), including:
 - Greatly increased energy

- Severe trouble sleeping
- Racing thoughts
- · Reckless behavior
- Unusually grand ideas
- Excessive happiness or irritability
- Talking more or faster than usual

If you have any of the above symptoms of mania, call your healthcare provider.

• **Unusual thoughts or behaviors.**Some patients have unusual thoughts or behaviors while taking bupropion hydrochloride extended-release tablets (SR), including delusions (believe you are someone else), hallucinations (seeing or hearing things that are not there), paranoia (feeling that people are against you), or feeling confused. If this happens to you, call your healthcare provider.

· Visual problems.

- eye pain
- changes in vision
- swelling or redness in or around the eye

Only some people are at risk for these problems. You may want to undergo an eye examination to see if you are at risk and receive preventative treatment if you are.

• Severe allergic reactions. Some people can have severe allergic reactions to bupropion hydrochloride extended-release tablets (SR). Stop taking bupropion hydrochloride extended-release tablets (SR) and call your healthcare provider right awayif you get a rash, itching, hives, fever, swollen lymph glands, painful sores in the mouth or around the eyes, swelling of the lips or tongue, chest pain, or have trouble breathing. These could be signs of a serious allergic reaction.

What are bupropion hydrochloride extended-release tablets (SR)?

Bupropion hydrochloride extended-release tablets (SR) are a prescription medicine to help people quit smoking. Bupropion hydrochloride extended-release tablets (SR) should be used with a patient support program. It is important to participate in the behavioral program, counseling, or other support program your healthcare professional recommends. Quitting smoking can lower your chances of having lung disease, heart disease, or getting certain types of cancer that are related to smoking.

Who should not take bupropion hydrochloride extended-release tablets (SR)? Do not take bupropion hydrochloride extended-releasetablets (SR) if you:

- have or had a seizure disorder or epilepsy.
- have or had an eating disorder such as anorexia nervosa or bulimia.
- are taking any other medicines that contain bupropion, including WELLBUTRIN ®, WELLBUTRIN SR ®, WELLBUTRIN XL ®, APLENZIN ®, or FORFIVO XL ®. Bupropion is the same active ingredient that is in bupropion hydrochloride extended-release tablets (SR).
- drink a lot of alcohol and abruptly stop drinking, or take medicines called sedatives (these make you sleepy), benzodiazepines, or anti-seizure medicines, and you stop taking them all of a sudden.
- take a monoamine oxidase inhibitor (MAOI). Ask your healthcare provider or pharmacist if you are not sure if you take an MAOI, including the antibiotic linezolid.
 - do not take an MAOI within 2 weeks of stopping bupropion hydrochloride extended-release tablets (SR) unless directed to do so by your healthcare provider.
 - do not start bupropion hydrochloride extended-release tablets (SR) if you stopped taking an MAOI in the last 2 weeks unless directed to do so by your healthcare provider.
- are allergic to the active ingredient in bupropion hydrochloride extended-release tablets (SR), bupropion, or to any of the inactive ingredients. See the end of this Medication Guide for a complete list of ingredients in bupropion hydrochloride extended-release tablets (SR).

What should I tell my healthcare provider before taking bupropion hydrochloride extended-release tablets (SR)?

Tell your healthcare provider if you have ever had depression, suicidal thoughts or actions, or other mental health problems. You should also tell your healthcare provider about any symptoms you had during other times you tried to quit smoking, with or without bupropion hydrochloride extended-release tablets (SR). See "Quitting Smoking, Quit-Smoking Medications, Changes in Thinking and Behavior, Depression, and Suicidal Thoughts or Actions."

• Tell your healthcare provider about your other medical conditions, including if you:

- have liver problems, especially cirrhosis of the liver.
- have kidney problems.
- have, or have had, an eating disorder such as anorexia nervosa or bulimia.
- have had a head injury.
- have had a seizure (convulsion, fit).
- $\circ~$ have a tumor in your nervous system (brain or spine).
- have had a heart attack, heart problems, or high blood pressure.
- are a diabetic taking insulin or other medicines to control your blood sugar.
- o drink alcohol.

- abuse prescription medicines or street drugs.
- are pregnant or plan to become pregnant.
- o are breastfeeding. Bupropion hydrochloride extended-release (SR) passes into your milk in small amounts

Tell your healthcare provider about all the medicines you take, including prescription, over-the-counter medicines, vitamins, and herbal supplements. Many medicines increase your chances of having seizures or other serious side effects if you take them while you are taking bupropion hydrochloride extended-release tablets (SR).

How should I take bupropion hydrochloride extended-release tablets (SR)?

- Start bupropion hydrochloride extended-release tablets (SR) before you stop smoking to give bupropion hydrochloride extended-release tablets (SR) time to build up in your body. It takes about 1 week for bupropion hydrochloride extended-release tablets (SR) to start working.
- Pick a date to stop smoking that is during the second week you are taking bupropion hydrochloride extended-release tablets (SR)
- Take bupropion hydrochloride extended-release tablets (SR) exactly as prescribed by your healthcare provider. Do not change your dose or stop taking bupropion hydrochloride extended-release tablets (SR) without talking with your healthcare provider first.
- Bupropion hydrochloride extended-release tablets (SR) are usually taken for 7 to 12 weeks. Your healthcare provider may decide to prescribe bupropion hydrochloride extended-release tablets (SR) for longer than 12 weeks to help you stop smoking. Follow your healthcare provider's instructions.
- Swallow bupropion hydrochloride extended-release tablets (SR) whole. Do not chew, cut, or crush bupropion hydrochloride extended-release tablets (SR). If you do, the medicine will be released into your body too quickly. If this happens you may be more likely to get side effects including seizures. Tell your healthcare provider if you cannot swallow tablets.
- Bupropion hydrochloride extended-release tablets (SR) may have an odor. This is normal.
- Take your doses of bupropion hydrochloride extended-release tablets (SR) at least 8 hours apart.
- You may take bupropion hydrochloride extended-release tablets (SR) with or without food.
- It is not dangerous to smoke and take bupropion hydrochloride extended-release tablets (SR) at the same time. But, you will lower your chance of breaking your smoking habit if you smoke after the date you set to stop smoking.
- You may use bupropion hydrochloride extended-release tablets (SR) and nicotine patches (a type of nicotine replacement therapy) at the same time, following the precautions below.
 - You should only use bupropion hydrochloride extended-release tablets (SR) and nicotine patches together under the
 care of your healthcare provider. Using bupropion hydrochloride extended-release tablets (SR) and nicotine patches
 together may raise your blood pressure, and sometimes this can be severe.
 - Tell your healthcare provider if you plan to use nicotine patches. Your healthcare provider should check your blood
 pressure regularly if you use nicotine patches with bupropion hydrochloride extended-release tablets (SR) to help you
 quit smoking.
- If you miss a dose, do not take an extra dose to make up for the dose you missed. Wait and take your next dose at the regular time. **This is very important.** Too much bupropion hydrochloride extended-release tablets (SR) can increase your chance of having a seizure.
- If you take too much bupropion hydrochloride extended-release tablets (SR), or overdose, call your local emergency room
 or poison control center right away.

Do not take any other medicines while taking bupropion hydrochloride extended-release tablets (SR) unless your healthcare provider has told you it is okay.

What should I avoid while taking bupropion hydrochloride extended-release tablets (SR)?

- Limit or avoid using alcohol during treatment with bupropion hydrochloride extended-release tablets (SR). If you usually drink a lot of alcohol, talk with your healthcare provider before suddenly stopping. If you suddenly stop drinking alcohol, you may increase your chance of having seizures.
- Do not drive a car or use heavy machinery until you know how bupropion hydrochloride extended-release tablets (SR) affects you. Bupropion hydrochloride extended-release tablets (SR) can affect your ability to do these things safely.

What are possible side effects of bupropion hydrochloride extended-release tablets (SR)?

Bupropion hydrochloride extended-release tablets (SR) can cause serious side effects. See the sections at the beginning of this Medication Guide for information about serious side effects of bupropion hydrochloride extended-release tablets (SR). The most common side effects of bupropion hydrochloride extended-release tablets (SR) include:

trouble sleeping

feeling anxious

stuffy nose

nausea

dry mouth

constipation

dizziness

joint aches

If you have trouble sleeping, do not take bupropion hydrochloride extended-release tablets (SR) too close to bedtime. Tell your healthcare provider right away about any side effects that bother you.

These are not all the possible side effects of bupropion hydrochloride extended-release tablets (SR). For more information, ask

your healthcare provider or pharmacist.

Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088. You may also report side effects to Epic Pharma, LLC at 1-888-374-2791.

How should I store bupropion hydrochloride extended-release tablets (SR)?

- Store at 20° to 25°C (68° to 77°F); excursions permitted to 15° to 30°C (59° to 86°F) [see USP Controlled Room Temperature].
- Keep bupropion hydrochloride extended-release tablets (SR) dry and out of the light.
- Dispense in a tight, light-resistant container as defined in the USP with a child-resistant closure

Keep bupropion hydrochloride extended-release tablets (SR) and all medicines out of the reach of children.

General information about the safe and effective use of bupropion hydrochloride extended-release tablets (SR)

Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. Do not use bupropion hydrochloride extended-release tablets (SR) for a condition for which it was not prescribed. Do not give bupropion hydrochloride extended-release tablets (SR) to other people, even if they have the same symptoms you have. It may harm them.

If you take a urine drug screening test, bupropion hydrochloride extended-release tablets (SR) may make the test result positive for amphetamines. If you tell the person giving you the drug screening test that you are taking bupropion hydrochloride extended-release tablets (SR), they can do a more specific drug screening test that should not have this problem.

This Medication Guide summarizes important information about bupropion hydrochloride extended-release tablets (SR). If you would like more information, talk with your healthcare provider. You can ask your healthcare provider or pharmacist for information about bupropion hydrochloride extended-release tablets (SR) that is written for health professionals. For more information about bupropion hydrochloride extended-release tablets (SR), call 1-888-374-2791.

What are the ingredients in bupropion hydrochloride extended-release tablets (SR)?

Active ingredient: bupropion hydrochloride.

Inactive ingredients: colloidal silicon dioxide, hydroxypropyl cellulose, L-cysteine hydrochloride monohydrate, magnesium stearate, microcrystalline cellulose, polyethylene glycol, polyvinyl alcohol-part hydrolyzed, povidone, talc and titanium dioxide. In addition, the 150-mg tablet contains FD&C Blue No. 2 aluminum lake and FD&C Red No. 40 aluminum lake.

Brands listed are the trademarks of their respective owners.

Manufactured by:

Yichang Humanwell Oral Solid Dosage Plant

No. 519 Donglin Road, Yichang, Hubei, China 443112

Distributed by: Epic Pharma, LLC Laurelton, NY 11413

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

Revised: 02/2023

ZLN003

Bottle LABEL - PRINCIPAL DISPLAY PANEL 150 MG

Bupropion Hydrochloride Extended-Release Tablets, USP (SR)

NDC 42806-413-60 150 mg, 60 Tablets

Rx only



BUPROPION HYDROCHLORIDE SR

bupropion hydrochloride tablet, film coated, extended release

Product Information

Product Type HUMAN PRESCRIPTION DRUG Item Code (Source) NDC:42806-413

Route of Administration ORA

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
BUPROPION HYDROCHLORIDE (UNII: ZG7E5POY8O) (BUPROPION - UNII:01ZG3TPX31)	BUPROPION HYDROCHLORIDE	150 mg

Inactive Ingredients Ingredient Name POVIDONE (UNII: FZ 989GH94E) CYSTEINE HYDROCHLORIDE (UNII: ZT934N0X4W) HYDROXYPROPYL CELLULOSE, UNSPECIFIED (UNII: 9XZ 8H6N6OH) MICROCRYSTALLINE CELLULOSE (UNII: OP1R32D61U) SILICON DIOXIDE (UNII: ETJ7Z 6X8U4) MAGNESIUM STEARATE (UNII: 70097M6I30) POLYVINYL ALCOHOL, UNSPECIFIED (UNII: 532B59J990) TITANIUM DIOXIDE (UNII: 15FIX9V2JP) POLYETHYLENE GLYCOL 3350 (UNII: G2M7P15E5P) TALC (UNII: 7SEV7J4R1U) FD&C BLUE NO. 2--ALUMINUM LAKE (UNII: 4AQJ3LG584)

Product Characteristics

FD&C RED NO. 40 (UNII: WZB9127XOA)

Color	purple	Score	no score
Shape	ROUND	Size	11mm
Flavor		Imprint Code	YH;111
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
	NDC:42806-413- 60	60 in 1 BOTTLE; Type 0: Not a Combination Product	02/28/2023	

60 Product

Marketing Information

Marketing	Application Number or Monograph	Marketing Start	Marketing End
Category	Citation	Date	Date
ANDA	ANDA216766	02/28/2023	

Labeler - Epic Pharma, LLC (827915443)

Registrant - Yichang Humanwell Pharmaceutical Co,. Ltd. (527225336)

Establishment				
Name	Address	ID/FEI	Business Operations	
Yichang Humanwell Oral Solid Dosge Plant		421371958	manufacture(42806-413)	

Revised: 12/2023 Epic Pharma, LLC