treatment of major de pressive disorder (MDD) (1.

prevention of seasonal affective disorder (SAD) (1.2)

Hepatic Impairment

Moderate to severe hepatic impairment: 150 mg every other day (2.6)

Mild hepatic impairment: Consider reducing the dose and/or frequency of dosing. (2.6, 8.7) Consider reducing the dose and/or frequency of dosing. (2.7, 8.6) ----DOSAGE FORMS AND STRENGTHS--Extended-release tablets: 150 mg, 300 mg (3)

BUPROPION HYDROCHLORIDE extended-release tablets (XL) for oral use

See full prescribing information for complete boxed warning.

Bupropion hydrochloride extended-release tablets (XL) are an aminoketone antidepressant

Increased risk of suicidal thinking and behavior in children, adolescents, and

HIGHLIGHTS OF PRESCRIBING INFORMATION
These highlights do not include all the information needed to use BUPROPION
HYDROCHLORIDE EXTENDED-RELEASE TABLETS (XL) safely and effectively. See full
prescribing information for BUPROPION HYDROCHLORIDE EXTENDED-RELEASE TABLETS extended-release tablets (XL) in a patient who is being treated with linezolid or intravenous 4 CONTRAINDICATIONS Known hypersensitivity to bupropion or other ingredients of bupropion hydrochloride extended-release tablets (XL) (4, 5.8)

FULL PRESCRIBING INFORMATION: CONTENTS*
WARNING: SUICIDAL THOUGHTS AND BEHAVIORS
1 INDICATIONS AND USAGE
1.1 Major Depressive Disorder (MDD)
1.2 Seasonal Affective Disorder (SAD)

DOSAGE AND ADMINISTRATION General Instructions for Use Dosage for Major Depressive Disorder (MDD) Dosage for Seasonal Affective Disorder (SAD)

Switching Patients from WELLBUTRIN Tablets or from WELLBUTRIN SR Sustained-Release Tablets
To Discontinue Bupropion Hydrochloride Extended-Release Tablets (XL), Taper the

Dosage Adjustment in Patients with Hepatic Impairment Dose Adjustment in Patients with Renal Impairment Switching a Patient to or from a Monoamine Oxidase Inhibitor (MAOI)

Use of Bupropion Hydrochloride Extended-Release Tablets (XL) with Reversible MAOIs such as Linezolid or Methylene Blue

DOSAGE FORMS AND STRENGTHS CONTRAINDICATIONS

BUPROPION HYDROCHLORIDE

extended-release tablets (XL)

ADVERSE REACTIONS

WARNING: SUICIDAL THOUGHTS AND BEHAVIORS SUICIDALITY AND ANTIDEPRESSANT DRUGS

Antidepressants increased the risk of suicidal thoughts and behavior in children.

DRUG INTERACTIONS
7.1 Potential for Other Drugs to Affect Bupropion Hydrochloride Extended-Release

Dopaminergic Drugs (Levodopa and Amantadine) Use with Alcohol MAO Inhibitors Drug-Laboratory Test Interactions

USE IN SPECIFIC POPULATIONS

10 OVERDOSAGE

12 CLINICAL PHARMACOLOGY

13 NONCLINICAL TOXICOLOGY

14 CLINICAL STUDIES 4.1 Major Depressive Disorder4.2 Seasonal Affective Disorder 16 HOW SUPPLIED/STORAGE AND HANDLING

17 PATIENT COUNSELING INFORMATION

* Sections or subsections omitted from the full prescribing information are not listed

should be individualized, based on the patient's historical pattern of seasonal MDD episodes.

2.4 Switching Patients from WELLBUTRIN Tablets or from WELLBUTRIN SR Sustained-Release Tablets providers. Such monitoring should include daily observation by families and caregivers. Prescriptions for bupropion hydrochloride extended-release tablets (XL) should be When switching patients from WELLBUTRIN Tablets to bupropion hydrochloride extended-release tablets (XL) or from WELLBUTRIN SR (bupropion hydrochloride extended-release tablets (SR)) to bupropion hydrochloride extended-release tablets (XL), give the same total daily dose

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 Patients

Age Range	Drug-Placebo Difference in Number of Cases of Suicidality per 1,000 Patients Treated			
Increases Compared to Placebo				
<18 years	14 additional cases			
18-24 years	5 additional cases			
Decreases Compared to Placebo				
25-64 years	1 fewer case			
≥65 years	6 fewer cases			
suicides occurred in any of the pediatric trials. There were suicides in the adult trials, but the mber was not sufficient to reach any conclusion about drug effect on suicide.				

It is unknown whether the succidanty risk extends to inoger-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

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. Ithough a causal link between the emergence of such symptoms and either the worsening f 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

experiencing emergent suicidality or symptoms that might be precursors to worsening ession 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 major depressive disorder 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 the other states.

written for the smallest quantity of tablets consistent with good patient management, in

4 CONTRAINDICATIONS
 Bupropion hydrochloride extended-release tablets (XL) are contraindicated in patients with seizure disorder.
 Bupropion hydrochloride extended-release tablets (XL) are contraindicated in patients with seizure disorder.
 Bupropion hydrochloride extended-release tablets (XL) dose does not exceed 450 mg once daily and the titration rate is gradual.

methylate Buc, 6, 7,70.

Noom hyporechative and the properties of the properties of buppoon bydrochrose celebrady-release babbes QL) are contranscictories a maintee with buppoon bydrochrose celebrady-release babbes QL) are contranscictories a maintee with buppoon bydrochrose celebrady-release babbes QL) are contranscictories and buppoon bydrochrose celebrady bydrochrose celebrady-release babbes QL) are contranscictories and buppoon bydrochrose celebrady-release babbes QL) are buppoon bydrochrose celebrady-release babbes QL) are contranscict

hydrochloride extended-release tablets (XL) if these reactions occur.

5.7 Angle-Closure Glaucoma
Angle-Closure Glaucoma: The pupillary dilation that occurs following use of many antidepressant drugs including bupropion hydrochloride extended-release tablets (XL) may trigger an angle-closure attack in a patient with anatomically narrow angles who does not have note to the directory.

5.8 Hypersensitivity Reactions 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 upropion. Instruct patients to discontinue bupropion hydrochloride extended-release tablets eaction (e.g., skin rash, pruritus, hives, chest pain, edema, and shortness of breath) during There are reports of arthralgia, myalgia, fever with rash and other symptoms of serum sickness suggestive of delayed hypersensitivity

6 ADVERSE REACTIONS

• Suicidal thoughts and behaviors in children, adolescents, and young adults [see Warnings Neuropsychiatric adverse events and suicide risk in smoking cessation treatment *Isee*

Seizure Isee Warnings and Precautions (5.3)1 Hypertension [see Warnings and Precautions (5.4)]

 Activation of mania or hypomania [see Warnings and Precautions (5.5)]
 Psychosis and other neuropsychiatric events [see Warnings and Precautions (5.6)] Angle-Closure Glaucoma [see Warnings and Precautions (5.7)]
 Hypersensitivity reactions [see Warnings and Precautions (5.8)]

*Incidence based on the number of female patients.
The following additional adverse reactions occurring in greater than 0 but less than 0.5% of patients.
The following additional adverse reactions occurred in controlled trials of bupropion HCI immediate-release (300 to 600 mg per day) at an incidence of at least 1% more frequently than in the placebo group were: cardiac arrhythmia (5% vs. 4%), hypertension (4% vs. 2%), hypotension (3% vs. 2%), ensory disturbance (4% vs. 3%), confusion (6% vs. 5%), decreased libido (3% vs. 2%), sensory disturbance (4% vs. 3%), confusion (6% vs. 5%), decreased libido (3% vs. 2%), solitility (6% vs. 4%), auditory disturbance (5% vs. 3%), and gustatory disturbance (3% vs. 1%). 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 to rates in the clinical trials of another drug and may not reflect the rates observed in practice.

Seasonal Affective Disorder in placebo-controlled clinical trials in SAD, 9% of patients treated with bupropion hydrochloride extended-release tablets (XL) and 5% of patients treated with placebo discontinued treatment extended-release tablets (XL) and 5% of patients treated with placebo discontinued treatment because of adverse reactions. The adverse reactions leading to discontinuation in at least 1% of patients treated with bupropion and at a rate numerically greater than the placebo rate were insomnia (2% vs. <1%) and headache (1% vs. <1%). Commonly Observed Adverse Reactions in Controlled Clinical Trials of Sustained-Release

Bupropion Hydrochloride
Adverse reactions that occurred in at least 5% of patients treated with bupropion HCl sustainedrelease (300 mg and 400 mg per day) and at a rate at least twice the placebo rate are listed below. 300 mg/day of bupropion HCl sustained-release: anorexia, dry mouth, rash, sweating, tinnitus, 400 mg/day of bupropion HCl sustained-release: abdominal pain, agitation, anxiety, dizziness,

dry mouth, insomnia, myalgia, nausea, palpitation, pharyngitis, sweating, tinnitus, and urinary

Adverse Reaction Term	Placebo (n=385)	Bupropion HCI Sustained- Release 300 mg/day (n=376)	Bupropion HCI Sustained- Release 400 mg/day (n=114)
Rash	0.0%	2.4%	0.9%
Nausea	0.3%	0.8%	1.8%
Agitation	0.3%	0.3%	1.8%
Migraine	0.3%	0.0%	1.8%
discontinued due to those listed above fo disturbances.	an adverse r r the sustaine	HCI immediate-release, 109 eaction. Reactions resulting in ad-release formulation) include an Incidence of >1% in Patien	discontinuation (in addition to d vomiting, seizures, and sleep

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Dispense with Medication Guide available at: www.epic-pharma.com/ medguide/Bupropion-Hydrochloride-Extended-Release-XL-Tablets.pdf MEDICATION GUIDE **Bupropion Hydrochloride** (bue proe' pee on hye" droe klor' ide) Extended-Release Tablets (XL) IMPORTANT: Be sure to read the three sections of this Medication Guide. The first section is about the risk of suicidal thoughts and actions with antidepressant

> Antidepressant Medicines, Depression and Other Serious Mental Illnesses, and Suicidal Thoughts or Actions 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

behavior, depression and suicidal thoughts or actions with medicines used to

quit smoking; and the third section is entitled "What Other Important Information

Should I Know About Bupropion Hydrochloride Extended-Release Tablets (XL)?"

thoughts or actions? 1. Antidepressant medicines may increase the risk of 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

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 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

1%

2%

2%

2%

0%

Table 4 summarizes the adverse reactions that occurred in patients treated with bupropion

drochloride extended-release tablets (XL) for up to approximately 6 months in 3 placeb

controlled trials. These include reactions that occurred at an incidence of 2% or more and wer

Table 4: Adverse Reactions in Placebo-Controlled Trials in Patients with SAD

System Organ Class/Preferred Term Placebo (n=511) Bupropion HCI Extended-Release (n=537)

more frequent than in the placebo group.

Jpper respiratory tract infection

sychiatric Disorders

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?

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

Never stop an antidepressant medicine without first talking to a healthcare provider.

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 (XL) are safe and effective in children under the age of 18.

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 guit smoking. Although bupropion hydrochloride extended-release tablets (XL) are not a treatment for quitting smoking, it contains the same active ingredient (bupropion hydrochloride) as ZYBAN[®] which is used to help patients guit smoking.

Talk to your healthcare provider or your family member's healthcare provider about: all risks and benefits of quit-smoking medicines.

that may be due to nicotine withdrawal, including:

all treatment choices for quitting smoking.

 feeling anxious difficulty concentrating

restlessness

 trouble sleeping irritability

depressed mood

decreased heart rate

frustration

 increased appetite weight gain

anger 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 to help them quit smoking, including:

New or worse mental health problems, such as changes in behavior or thinking, aggression, hostility, agitation, depression, or suicidal thoughts or medicines; the second section is about the risk of changes in thinking and | actions. Some people had these symptoms when they began taking bupropion, and others developed them after several weeks of treatment, or after stopping bupropion. These symptoms happened more often in people who had a history of mental health problems before taking bupropion than in people without a history of mental health problems.

Stop taking bupropion hydrochloride extended-release tablets (XL) and call your healthcare provider right away if you, your family, or caregiver notice any of these symptoms. Work with your healthcare provider to decide whether you should continue to take bupropion hydrochloride extended-release tablets (XL). In many people, these symptoms went away after stopping bupropion hydrochloride extended-release tablets (XL), but in some people symptoms continued after stopping bupropion hydrochloride extended-release tablets (XL). It is important for you to follow-up with your healthcare provider until your symptoms go away. Before taking bupropion hydrochloride extended-release tablets (XL), tell vour 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.

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

 Seizures: There is a chance of having a seizure (convulsion, fit) with bupropion hydrochloride extended-release tablets (XL), 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 (XL). For more information, see the sections "Who should not take bupropion hydrochloride extended-release tablets (XL)?" and "What should I tell my healthcare provider before taking bupropion hydrochloride extended-release tablets (XL)?" 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 (XL) unless your healthcare provider has said it is okay to take them.

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

 High blood pressure (hypertension). Some people get high blood pressure that can be severe, while taking bupropion hydrochloride extended-release tablets (XL). 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 (XL)?").

Manic episodes. Some people may have periods of mania while taking bupropion hydrochloride extended-release tablets (XL), including:

 Greatly increased energy Severe trouble sleeping

Racing thoughts Reckless behavior

Unusually grand ideas

Excessive happiness or irritability Talking more or faster than usual

lf 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 (XL), 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.

eve pain

changes in vision swelling or redness in or around the eve

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 (XL). Stop taking bupropion hydrochloride extended-release tablets (XL) and call your healthcare provider right away if 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.

When you try to quit smoking, with or without bupropion you may have symptoms | What is bupropion hydrochloride extended-release tablet (XL)?

Bupropion hydrochloride extended-release tablets (XL) are a prescription medicine used to treat adults with a certain type of depression called major depressive disorder and for the prevention of autumn-winter seasonal depression (seasonal affective disorder).



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- Do not take bupropion hydrochloride extended-release tablets (XL) 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 (bupropion hydrochloride tablets), WELLBUTRIN SR (bupropion hydrochloride extended-release tablets (SR)), APLENZIN®, ZYBAN, or FORFIVO XL. Bupropion is the same active ingredient that is in bupropion hydrochloride extended-release tablets (XL).
- 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. o do not take an MAOI within 2 weeks of stopping bupropion hydrochloride extended-release tablets (XL) unless directed to do so by your healthcare provider.
- odo not start bupropion hydrochloride extended-release tablets (XL) if you stopped taking an MAOI in the last 2 weeks unless directed to do so by vour healthcare provider.
- are allergic to the active ingredient in bupropion hydrochloride extended-release tablets (XL), bupropion, or to any of the inactive ingredients. See the end of this | Bupropion hydrochloride extended-release tablets (XL) can cause serious side Medication Guide for a complete list of ingredients in bupropion hydrochloride

What should I tell my healthcare provider before taking bupropion | tablets (XL) include: hydrochloride extended-release tablets (XL)?

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 guit smoking. with or without bupropion hydrochloride extended-release tablets (XL). 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
- have liver problems, especially cirrhosis of the liver.
- have kidney problems.
- have, or have had, an eating disorder such as anorexia nervosa or bulimia.
- be have had a head injury.
- have had a seizure (convulsion, fit).
- 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.
- drink alcohol.
- abuse prescription medicines or street drugs.
- are pregnant or plan to become pregnant. Talk to your healthcare provider about the risk to your unborn baby if you take bupropion hydrochloride extended-release tablets (XL) during pregnancy.
- Tell your healthcare provider if you become pregnant or think you are pregnant during treatment with bupropion hydrochloride extended-release tablets (XL).
- o If you become pregnant during treatment with bupropion hydrochloride extended-release tablets (XL), talk to your healthcare provider about registering with the National Pregnancy Registry for Antidepressants. You can register by calling 1-844-405-6185.
- are breastfeeding or plan to breastfeed during treatment with bupropion hydrochloride extended-release tablets (XL). Bupropion hydrochloride nydrochloride extended-release tablets (XL).

Tell your healthcare provider about all the medicines you take, including prescription, over-the-counter medicines, vitamins, and herbal supplements. Many take them while you are taking bupropion hydrochloride extended-release tablets (XL).

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

- Take bupropion hydrochloride extended-release tablets (XL) exactly as prescribed by your healthcare provider. Do not change your dose or stop taking bupropion hydrochloride extended-release tablets (XL) without talking with your healthcare | call 1-888-374-2791.
- Swallow bupropion hydrochloride extended-release tablets (XL) whole. Do not chew, cut, or crush bupropion hydrochloride extended-release tablets | Active ingredient: bupropion hydrochloride. (XL). If you do, the medicine will be released into your body too quickly. If this | Inactive ingredients: cysteine hydrochloride, ethylcellulose, methacrylic acid 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 (XL) may have an odor. This is
- Take your doses of bupropion hydrochloride extended-release tablets (XL) at least 24 hours apart.
- You may take bupropion hydrochloride extended-release tablets (XL) with or without food.
- If you miss a dose, do not take an extra dose to make up for the dose you | Distributed by: missed. Wait and take your next dose at the regular time. This is very | Epic Pharma, LLC important. Too much bupropion hydrochloride extended-release tablets (XL) can | Laurelton, NY 11413 increase your chance of having a seizure.
- If you take too much bupropion hydrochloride extended-release tablets (XL), or
- Do not take any other medicines while taking bupropion hydrochloride extendedrelease tablets (XL) unless your healthcare provider has told you it is okay.

Who should not take bupropion hydrochloride extended-release tablets (XL)? treatment of major depressive disorder, it may take several weeks for you to feel that bupropion hydrochloride extended-release tablets (XL) are working. Once you feel better, it is important to keep taking bupropion hydrochloride extendedrelease tablets (XL) exactly as directed by your healthcare provider. Call your healthcare provider if you do not feel bupropion hydrochloride extended-release tablets (XL) are working for you.

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

- Limit or avoid using alcohol during treatment with bupropion hydrochloride extended-release tablets (XL). 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 (XL) affect you. Bupropion hydrochloride extended-release tablets (XL) can affect your ability to do these things safely.

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

effects. See the sections at the beginning of this Medication Guide for information about serious side effects of bupropion hydrochloride extended-release tablets (XL). The most common side effects of bupropion hydrochloride extended-release

- trouble sleeping
- stuffv nose
- drv mouth dizziness
- constipation joint aches If you have trouble sleeping, do not take bupropion hydrochloride extended-release

tablets (XL) 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 extendedrelease tablets (XL). 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 (XL)?

 Store bupropion hydrochloride extended-release tablets (XL) 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]. Dispense in a tight, light-resistant container as defined in the USP with a child-resistant closure.

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

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

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

extended-release tablets (XL) pass into your milk. Talk to your healthcare | If you take a urine drug screening test, bupropion hydrochloride extendedprovider about the best way to feed your baby during treatment with bupropion | release tablets (XL) 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 (XL), they can do a more specific drug screening test that should not have this problem.

medicines increase your chances of having seizures or other serious side effects if you | This Medication Guide summarizes important information about bupropion hydrochloride extended-release tablets (XL). 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 (XL) that is written for health professionals.

For more information about bupropion hydrochloride extended-release tablets (XL),

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

copolymer dispersion, lecithin, magnesium stearate, polyvinyl alcohol, polyethylene glycol, povidone, silicon dioxide, talc, triethyl citrate and titanium dioxide.

The tablets are printed with black ink containing ammonium hydroxide, ferrosoferric oxide, propylene glycol, shellac glaze.

Manufactured by: Yichang Humanwell Oral Solid Dosage Plant

Yichang, Hubei, China 443112

All product/brand names are the trademarks of their respective owners.

overdose, call your local emergency room or poison control center right away.

This Medication Guide has been approved by the U.S. Food and Drug Administration. 71 N004

Thanges in Body Weight Table 5 presents the incidence of body weight changes (≥5 lbs) in the short-term MDD trials Table 5: Incidence of Weight Gain or Weight Loss (≥5 lbs) in MDD Trials Using Bupropion

noi Sustailleu-nelease						
ght Change	Bupropion HCI Sustained- Release 300 mg/day (n=339)	Bupropion HCI Sustained- Release 400 mg/day (n=112)	Placebo (n=347)			
ined >5 lbs	3%	2%	4%			
st >5 lbs	14%	19%	6%			
Conservation the incidence of heady project absence (Filly) in the COAR trials project						

Table 6 presents the incidence of body weight changes (≥5 lbs) in the 3 SAD trials using bupropion HCl extended-release. A higher proportion of subjects in the bupropion group (23%) had a weight loss ≥5 lbs, compared to the placebo group (11%). These were relatively long-Table 6: Incidence of Weight Gain or Weight Loss (≥5 lbs) in SAD Trials Using Bupropion

noi exteriueu-nerease				
Weight Change	Bupropion HCI Extended-Release 150 to 300 mg/day (n=537)	Placebo (n=511)		
Gained >5 lbs	11%	21%		
Lost >5 lbs	23%	11%		
6.2 Postmarketing Experience				

The following adverse reactions have been identified during post-approval use of bupropion hydrochloride extended-release tablets (XL). Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency r establish a causal relationship to drug exposure.

Body (General)
Chills, facial edema, edema, peripheral edema, musculoskeletal chest pain, photosensitivity, and

<u>orgestive</u>

Abnormal liver function, bruxism, gastric reflux, gingivitis, glossitis, increased salivation, jaundice, mouth ulcers, stomatitis, thirst, edema of tongue, colitis, esophagitis, gastrointestinal hemorrhage, gum hemorrhage, hepatitis, intestinal perforation, liver damage, pancreatitis, and cemia, hypoglycemia, and syndrome of inappropriate antidiuretic hormone secretion.

Hemic and Lymphatic
Ecchymosis, anemia, leukocytosis, leukopenia, lymphadenopathy, pancytopenia, and thrombocytopenia. Altered PT and/or INR, associated with hemorrhagic or thrombotic complications, were observed when bupropion was coadministered with warfarin. Metabolic and Nutritional

Leg cramps, fever/rhabdomyolysis, and muscle weakness.

Veryous System

Abnormal coordination, depersonalization, emotional lability, hyperkinesia, hypertonia Normal coordinator, deple statistica de l'indicata de l'indicata animy, injue mesta, injupesthesia, vertigo, amnesia, ataxia, derealization, abnormal electroencephalogra aggression, akinesia, aphasia, coma, dysarthria, dyskinesia, dystonia, euphoria, extrap syndrome, hypokinesia, increased libido, neuraloja, neuropathy, paranoid ideation, restl suicide attempt, and unmasking tardive dyskinesia.

<u>SKIN</u> Maculopapular rash, alopecia, angioedema, exfoliative dermatitis, and hirsutism, acute

<u>Special Senses</u> Accommodation abnormality, dry eye, deafness, increased intraocular pressure, angle-closure glaucoma, and mydriasis

<u>Urogenital</u> impotence, polyuria, prostate disorder, abnormal ejaculation, cystitis, dyspareunia, dysuria, gynecomastia, menopause, painful erection, salpingitis, urinary incontinence, urinary retention, and vaginitis. DRUG INTERACTIONS

Potential for Other Drugs to Affect Bupropion Hydrochloride Extended-Release Tablets (XL) rablets (XL)

Bupropion is primarily metabolized to hydroxybupropion by CYP2B6. Therefore, the potential exists for drug interactions between bupropion hydrochloride extended-release tablets (XL) and drugs that are inhibitors or inducers of CYP2B6.

Ticlopidine and Ciopidogrei: Concomitant treatment with these drugs can introduce a support of the propose of the exposures but decrease hydroxyburporpion exposure. Based on clinical response, dosage adjustment of burpopion hydrochloride extended-release tablets (XL) may be necessary when coadministered with CYP286 inhibitors (e.g., ticlopidine or clopidogrei) [see Clinical State Clinical Company or Cli

Inducers of CYP286
Ritonavir. Loninavir, and Efavirenz: Concomitant treatment with these drugs can decrease buppropion and hydroxybupropion exposure. Dosage increase of bupropion hydrochloride extended-release tablets (XL) may be necessary when coadministered with ritonavir, lopinavir, or efavirenz but should not exceed the maximum recommended dose [see Clinical Pharmacology

J. amazepine, Phenobarbital, Phenytoin: While not systemically studied, these drugs induce metabolism of bupropion and may decrease bupropion exposure [see Clinical macology (1-2.3)]. If bupropion is used concomitantly with a CVP inducer, it may be ssary to increase the dose of bupropion, but the maximum recommended dose should not Carbamazepine, Phenobarbital, Phenytoin: While not systemically studied, these drugs may induce 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 (XL) to Affect Other potential for Bupropion Hydrochloride Extended-Release Tablets (XL) to Affect Other potential for Bupropion Hydrochloride Extended-Release Tablets (XL) to Affect Other potential for Bupropion Hydrochloride Extended-Release Tablets (XL) to Affect Other potential for Bupropion Hydrochloride Extended-Release Tablets (XL) to Affect Other potential for Bupropion Hydrochloride Extended-Release Tablets (XL) to Affect Other potential for Bupropion Hydrochloride Extended-Release Tablets (XL) to Affect Other potential for Bupropion Hydrochloride Extended-Release Tablets (XL) to Affect Other potential for Bupropion Hydrochloride Extended-Release Tablets (XL) to Affect Other potential for Bupropion Hydrochloride Extended-Release Tablets (XL) to Affect Other potential for Bupropion Hydrochloride Extended-Release Tablets (XL) to Affect Other potential for Bupropion Hydrochloride Extended-Release Tablets (XL) to Affect Other potential for Bupropion Hydrochloride Extended-Release Tablets (XL) to Affect Other potential for Bupropion Hydrochloride Extended-Release Tablets (XL) to Affect Other potential for Bupropion Hydrochloride Extended-Release Tablets (XL) to Affect Other potential for Bupropion Hydrochloride Extended-Release Tablets (XL) to Affect Other potential for Bupropion Hydrochloride Extended-Release Tablets (XL) to Affect Other potential for Bupropion Hydrochloride Extended-Release Tablets (XL) to Affect Other potential for Bupropion Hydrochloride Extended-Release Tablets (XL) to Affect Other potential for Bupropion Hydrochloride Extended-Release Tablets (XL) to Affect Other po

Burys Metabolized by CYP2D6
Bupropion and its metabolites (erythrohydrobupropion, threohydrobupropion, hydroxybupropion) are CYP2D6 inhibitors. Therefore, coadministration of bupropion hydrochloride extended-release tablets (XL) 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, and thioridazine), beta-blockers (e.g., metoprolol), and Type 1C antiarrhythmics (e.g., propatenone, and flecianide). When used concomitantly with burpopion hydrochloride extended-release tablets (XL), 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 concomilantly with bupropion hydrochloride extended-release tablets (XL) and such drugs may require increased doses of the drug [see Clinical Pharmacology (12.3)].

7.3 Drugs That Lower Seizure Threshold

17.3 brigs final cower section interesting the state of t

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 (XL) concomitantly with these drugs.

<u>Pregnancy Exposure Registry</u>
There is a pregnancy exposure registry that monitors pregnancy outcomes in women exposed to antidepressants during pregnancy. Healthcare providers are encouraged to register patients by calling the National Pregnancy Registry for Antidepressants at 1-844-405-6185 or visiting online at https://womensmentalhealth.org/clinical-and-research-programs/pregnancyregistry/antidepressants/

mately equal to the MRHD and greater. Decreased fetal weights were seen at doses

twice the MRHD and greater (see Animal Data).

overdoses.

Although most patients recovered without sequelae, deaths associated with overdoses of the drug. Multiple outcomes. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies have a background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2% to 4% and 15% to 20%, respectively.

Clinical Considerations
Disease-associated maternal and/or embryo/fetal risk
A prospective, longitudinal study followed 201 pregnant women with a history of major
depressive disorder who were euthymic and taking antidepressants during pregnancy at the
beginning of pregnancy. The women who discontinued antidepressants during pregnancy
were more likely to experience a relapse of major depression than women who continued
antidepressants. Consider the risks to the mother of untreated depression and postnating
regnancy and postnating

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. The Registry was not designed or powered to evaluate specific defects but suggested a possible increase in cardiac

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). International Pregiancy Registry Was 1.3% (9 Cardiovascular maintrimations/o/5 intst-trimester maternal bupropion exposures), which is similar to the background rate of cardiovascular malformations (approximately 1%). Data from the United Healthcare database, which has a limited number of exposed cases with cardiovascular malformations, and a case-controlled study (6,535 infants with cardiovascular malformations and 5,753 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

Study findings on bupropion exposure during the first trimester and risk left ventricular outflow tract obstruction (LVOTO) are inconsistent and do not allow conclusions regarding possible association. The United Healthcare database lacked sufficient power to evaluate this association; the NBDPS found increased risk for LV0TO (n=10; adjusted odds ratio (0R)=2.6; 95% CI: 1.2, 5.7), and the Slone Epidemiology case control study did not find increased risk for LV0TO.

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 0R=2.5, 95% CI: 1.3, 5.0) but did not find an 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 naternal bupropion exposure and VSD.

For the findings of LVOTO and VSD, the studies were limited by the small number of exposed

inconsistent findings among studies, and the potential for chance findings from multiple risons in case control studies.

compansons in case control studies.

Animal Data
In studies conducted in pregnant rats and rabbits, bupropion was administered orally during the period of organogenesis at doses of up to 450 and 150 mg/kg/day, respectively (approximately 10 and 6 times the MRHD, respectively, on a mg/m² basis). There was no evidence of fetal malformations in rats. When given to pregnant rabbits during organogenesis, non-dose-related increases in incidence of fetal malformations and skeletal variations were observed at the lowest dose tested (25 mg/kg/day, approximately equal to the MRHD on a mg/m² basis) and greater. Decreased fetal weights were observed at doses of 50 mg/kg/day (approximately 2 times the MRHD on a mg/m² basis) and greater. No maternal toxicity was evident at doses of 50 mg/kg/day or less

mg/kg/day or less.
In a pre- and postnatal development study, bupropion administered orally to pregnant rats at doses of up to 150 mg/kg/day (approximately 3 times the MRHD on a mg/m² basis) from embryonic implantation through lactation had no effect on pup growth or development.

parts from published illerature report the presence of buppropion and its metabolites in numan milk (see Data). There are no data on the effects of buppropion or its metabolites on milk production. Limited data from postmarketing reports have not identified a clear association of adverse reactions in the breastfed infant. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for buppropion hydrochloride extended-release tablets (XL) and any potential adverse effects on the breastfed child from bupropion hydrochloride extended-release tablets (XL) or from the underlying

8.4 Pediatric Use Safety and effectiveness in the pediatric population have not been established. When

considering the use of bupropion hydrochloride extended-release tablets (XL) in a child or adolescent, balance the potential risks with the clinical need [see Boxed Warning and Warnings and Precautions (5.1)].

and Precautions (5.1)].

8.5 Geriatric Use
Of the approximately 6,000 patients who participated in clinical trials with bupropion hydrochloride sustained-release tablets (depression and smoking cessation studies), 275 were ≥65 years old and 47 were ≥75 years old. In addition, several hundred patients ≥65 years of age participated in clinical trials using the immediate-release formulation of bupropion hydrochloride (depression studies). 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), and Clinical Pharmacology (12.3)].

8.6 Renal Impairment

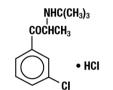
8.6 Renal Impairment 8.6 Renal Impairment
Consider a reduced dose and/or dosing frequency of bupropion hydrochloride extended-release
tablets (XL) in patients with renal impairment (glomerular filtration rate: <90 mL/min). Bupropion
and its metabolites are cleared renally and may accumulate in such patients to a greater
extent than usual. Monitor closely for adverse reactions that could indicate high bupropion or

tudies in rodents and primates demonstrated that bupropion exhibits some pharm actions common to psychostimulants. In rodents, it has been shown to increase locomotor activity, elicit a mild stereotyped behavioral 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 discriminative paradigms used to characterize the subjective effects of psychoactive

10.2 Overdosage Management
Consult a Certified Poison Control Center for up-to-date guidance and advice. Call 1-800-2221222 or refer to www.poison.org.
There are no known antidotes for bupropion. In case of an overdose, provide supportive care,

11 DESCRIPTION

Rupropion Hydrochloride USP, an antidepressant of the aminoketone class, is chemically unrelated to tricyclic, tetracyclic, selective serotonin reuptake inhibitor, or other known antidepressant agents. Its structure closely resembles that of diethylpropion; it is related to phenylethylamines. It is designated as (±)-1-(3-chorophenyl)-2-[(1,1-dimethylethyl) amino]-1-propanone hydrochloride. The molecular weight is 276.2. The molecular formula is C₃H₁₆CNO-HCI. Bupropion hydrochloride nowder is white constitute and table training. C₁₃H₁₈ĆINÓ+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.



ethyl citrate and titanium dioxide. ne tablets are printed with black ink containing ammonium hydroxide, ferrosoferric oxide, propylene glycol, shellac glaze.
The insoluble shell of the extended-release tablet may remain intact during gastrointestinal transit and is eliminated in the feces.
USP dissolution test 22 is used.

12 CLINICAL PHARMACOLOGY
12.1 Mechanism of Action
The mechanism of action of bupropion is unknown, as is the case with other antidepressants. However, it is presumed that this action is mediated by noradrenergic and/or dopaminergic mechanisms. Bupropion is a relatively weak inhibitor of the neuronal uptake of norepinephrine and dopamine and does not inhibit monoamine oxidase or the reuptake of serotonin.

12.3 Pharmacokinetics Supropion is a racemic mixture. The pharmacologic activity and pharmacokinetics of the

Following chronic dosing, the mean steady-state plasma concentration of bupropion was Inducers of CYP2B6 reached within 8 days. The mean elimination half-life (\pm SD) of bupropion is 21 (\pm 9) hours a study comparing 14-day dosing with bupropion hydrochloride extended-release tablets), 300 mg once-daily to the immediate-release formulation of bupropion at 100 mg 3 times daily, equivalence was demonstrated for peak plasma concentration and area under ropion). Additionally, in a study comparing 14-day dosing with bupropior ormulation of bupropion at 150 mg 2 times daily, equivalence was demonstrated for peak lasma concentration and area under the curve for bupropion and the three metabolite

vitro tests show that bupropion is 84% bound to human plasma proteins at concentrations up o 200 mcg/mL. The extent of protein binding of the hydroxybupropion metabolite is similar to nat for bupropion, whereas the extent of protein binding of the threohydrobupropion metabolite is about half that of bupropion.

Bupropion is extensively metabolized in humans. Three metabolites are active: hydroxybupropion, which is formed via hydroxylation of the ter-houly 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 or higher than those of bupropion.

<u>Left Ventricular Dysfunction</u>
During a chronic dosing study with bupropion in 14 depressed patients 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 to healthy volunteers.

The effects of age on the pnarmacokinetics of bupropion and its metabolites have not been fully characterized, but an exploration of steady-state bupropion concentrations from several depression efficacy studies involving patients dosed in a range of 300 to 750 mg/day, on a 3 times daily schedule, revealed no relationship between age (18 to 83 years) and plasma concentration of bupropion. A single-dose pharmacokinetic study demonstrated that the disposition of bupropion and its metabolites in elderly subjects was similar to that in younger subjects. These data suggest that there is no prominent effect of age on bupropion concentration; however, another single- and multiple-dose pharmacokinetic study suggested that the elderly are at increased risk for accumulation of bupropion and its metabolites [see Use in Specific Populations (8.51)].

Gender
A single-dose study involving 12 healthy male and 12 healthy female volunteers revealed no sex-related differences in the pharmacokinetic parameters of bupropion. In addition, pooled analysis of bupropion pharmacokinetic data from 90 healthy male and 90 healthy female eers revealed no sex-related differences in the peak plasma concer he mean systemic exposure (AUC) was approximately 13% higher in male volunteers

<u>Smokers</u>
The effects of cigarette smoking on the pharmacokinetics of bupropion hydrochloride 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, there was no statistically significant difference in C_{max} half-life, T_{max} AUC, or clearance of bupropion or its active metabolites between smokers and nonsmokers.

Drug interactions
Potential for Other Drugs to Affect Bupropion Hydrochloride Extended-Release Tablets (XL)
In vitro studies indicate that bupropion is primarily metabolized to hydroxybupropion by CYP2B6.
Therefore, the potential exists for drug interactions between bupropion hydrochloride extendedrelease tablets (XL) and drugs that are inhibitors or inducers of CYP2B6. In addition, in vitro
studies suggest that paroxetine, sertraline, norfluoxetine, fluvoxamine, and nelfinavir inhibit the

hydroxybupropion were decreased.

**Prasugret:* In healthy subjects, prasugrel increased bupropion C_{max} and AUC values by 14% and 18%, respectively, and decreased C_{max} and AUC values of hydroxybupropion by 32% and 24%,

Suicidal Thoughts and Behaviors Instruct patients, their families, and/o

respectively.

Cimetidine: Following oral administration of bupropion 300 mg with and without cimetidine 800 mg in 24 healthy young male volunteers, the pharmacokinetics of bupropion and hydroxybupropion were unaffected. However, there were 16% and 32% increases in the AUC and C_{pass}, respectively, of the combined moleties of threohydrobupropion and epithophydropion. thronydrobupropion. *alopram:* Citalopram did not affect the pharmacokinetics of bupropion and its three metabolites.

Ritionavir and Lopinavir: In a healthy volunteer study, ritonavir 100 mg twice daily reduced the AUC and C_{mm} 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 study, ritonavir 600 ing twice daily decreased the AUC and C_{max} of bupropion by 66% and 62%, respectively. The exposure of the hydroxybupropion metabolite was decreased by 78%, the threehydrobupropion decreased by 50%, and the erythrohydrobupropion decreased by 68%. In another healthy volunteer study, lopinavir 400 mg/ritonavir 100 mg twice daily decreased

burpropion AUC and C_{max} by 57%. The AUC and C_{max} of hydroxybupropion metabolite were decreased by 50% and 31%, respectively. Flavienze: In a study of healthy volunteers, efavienze 600 mg once daily for 2 weeks reduced the AUC and C_{max} of bupropion by approximately 55% and 34%, respectively. The AUC of Severe Allergic Reactions arbamazepine, Phenobarbital, Phenytoin: While not systematically studied, these drugs may hydrochloride extended-release tablets (XL) if they have a severe allergic reactic induce the metabolism of uppropion. Potential for Bupropion Hydrochloride Extended-Release Tablets (XL) to Affect Other Drugs Animal data indicated that bupropion may be an inducer of drug-metabolizing enzymes humans. In a study of 8 healthy male volunteers, following a 14-day administration of bupropion 100 mg three times per day, there was no evidence of induction of its own metabolism.

Nevertheless, there may be the potential for clinically important alterations of blood levels of coadministered drugs.

Drugs Metabolized by CYP2D6
In vitro, bupropion and hydroxybupropion are CYP2D6 inhibitors. In a clinical study of 15 male subjects (ages 19 to 35 years) who were extensive metabolizers of CYP2D6, bupropion given as 150 mg twice daily followed by a single dose of 50 mg desipramine increased the C_{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. Citalopram: Although citalopram is not primarily metabolized by CYP2D6, in one study bupropion increased the C_{cm} 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.

13 NONCLINICAL TOXICOLOGY

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hours versus 21±5 hours, respectively). Although not statistically significant, the AUCs for bin patients 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 to 8 healthy volunteers. However, more variability was observed in some of the pharmacokinetic parameters for bupropion (AUC, C_{max}, and T_{max}) and its active metabolite typeropion (AUC, C_{max}, and T_{max}) and its active metabolite typeropion (AUC, C_{max}, and T_{max}) and its active metabolite typeropion (AUC, C_{max}, and T_{max}) and its active metabolite typeropion (AUC, C_{max}, and T_{max}) and its active metabolite typeropion (AUC, C_{max}, and T_{max}) and its active metabolite typeropion (AUC, C_{max}, and T_{max}) and its active metabolite typeropion (AUC, C_{max}, and T_{max}) and its active metabolite typeropion (AUC, C_{max}, and T_{max}) and its active metabolite typeropion (AUC, C_{max}, and T_{max}) and its active metabolite typeropion (Auc), respectively) and more variable when compared to values in healthy volunteers; the mean bupropion half-life was also longer (29 hours in subjects with severe hepatic cirrhosis was 19 hours in healthy subjects). For the metabolite hydroxybupropion and 11 hours later for three/erythrohydrobupropion, the mean C_{max} was approximately 69% lower. For the combined amino-alcohol isomers threohydrobupropion. The median T_{max} was observed 19 hours later for hydroxybupropion and about 2½-fold for threof erythrohydrobupropion. The median T_{max} was observed 19 hours later for three/erythrohydrobupropion. The median T_{max} was observed to the proper development of the proper

symptoms of seasonal affective disorder: social withdrawal, weight gain, increased appetite, increased eating, carbohydrate craving, hypersomnia, and fatigability. The primary efficacy endpoint was the onset of a seasonal major depressive episode. The criteria for defining an episode included: 1) the investigator's judgment that a major depressive episode had occurred or that the patient required intervention for depressive symptoms, or 2) a SIGH-SAD score of >20 on 2 consecutive weeks. The primary analysis was a comparison of depression-free rates between the bupropion and placebo groups. In these 3 trials, the percentage of patients who were depression-free (did not have an episode of MDD) at the end of treatment was significantly higher in the bupropion group than in the placebo group: 81.4% vs. 69.7%, 87.2% vs. 78.7%, and 84.0% vs. 69.0% for Trials 1, 2 and 3, respectively. For the 3 trials combined, the depression-free rate was 84.3% versus 72.0% in the bupropion and placebo group, respectively.

16 HOW SUPPLIED/STORAGE AND HANDLING
Bupropion Hydrochloride Extended-Release Tablets USP (XL), 150 mg of bupropion hydrochloride, are white to pale yellow, round biconvex tablet with imprinting "YH 102" in bottles of 30 tablets (NDC 42806-414-30), 90 tablets (NDC 42806-414-09) and 500 tablets (NDC 42806-414-05).

42806-414-05). Bupropion Hydrochloride Extended-Release Tablets USP (XL), 300 mg of bupropion hydrochloride, are white to pale yellow, round biconvex tablet with imprinting "YH 101" in bottles of 30 tablets (NDC 42806-416-30), 90 tablets (NDC 42806-416-09) and 500 tablets (NDC 42806-416-09). 42806-416-05). 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]. Dispense in a tight, light-resistant container as defined in the USP with a child

Keep out of reach of children.Bupropion Hydrochloride Extended-Release Tablets USP (XL) may have an odor.

17 PATIENT COUNSELING INFORMATION
Advise the patient to read the FDA-approved patient labeling (Medication Guide).
Inform patients, their families, and their caregivers about the benefits and risks associated with
treatment with burpropion hydrochloride extended-release tablets (XL) and counsel them in its
accordingly up.

realment with outproplon hyporchiloride extended-release tablets (XL) and counset ment in its appropriate use. A patient Medication Guide about "Antidepressant Medicines, Depression and Other Serious Mental Illnesses, and Suicidal Thoughts or Actions," "Quitting Smoking, Quit-Smoking Medications, Changes in Thinking and Behavior, Depression, and Suicidal Thoughts or Actions," and "What Other Important Information Should I Know About bupropion hydrochloride extended-release tablets (XL)?" is available for bupropion hydrochloride extended-release tablets (XL). Instruct patients, their families, and their caregivers to read the Medication Guide and assist them in understanding its contents. Patients should be given the opportunity to discuss the contents of the Medication Guide and to obtain answers to any questions they may have. The complete text of the Medication Guide and to obtain answers to any questions they may have. The complete text of the Medication Guide and to obtain answers to any questions they may have. The complete text of the Medication Guide and to obtain answers to any questions they may have. The complete text of the Medication Guide and to obtain answers to any questions they may have. The complete text of the Medication Guide and to obtain answers to any questions they may have. The complete text of the Medication Guide and to obtain answers to any questions they may have. The support of the manufacture of the man

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 health professional, especially if they re severe, abrupt in onset, or were not part of the patient's presenting symptoms. Symptom 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

Angle-Closure Glaucoma
Patients should be advised that taking bupropion hydrochloride extended-release tablets (XL) 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 indectomy. 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)]*.

procedure (e.g., indectomy), if mey are susceptible [see warnings and Precautions (s.r./).

Bupropion-Containing Products

Educate patients that bupropion hydrochloride extended-release tablets (XL) contain the same active ingredient (bupropion) found in ZYBAN, which is used as an aid to smoking cessation treatment, and that bupropion hydrochloride extended-release tablets (XL) should not be used in combination with ZYBAN or any other medications that contain bupropion hydrochloride (such as WELLBUTRIN SR, the sustained-release formulation, WELLBUTRIN, the immediate-release formulation, and APLENZIN®, a bupropion hydrobromide formulation). In addition, there are a number of generic bupropion HCl products for the immediate, sustained, and extended-release formulations.

(XL) 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 extendedrelease tablets (XL) do not adversely affect their performance, they should refrain from driving an automobile or operating complex, hazardous machinery. Bupropion hydrochloride extende release tablets (XL) treatment 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 (XL) and other drugs may affect each other's metabolism.

Potential for Cognitive and Motor Impairment