PRESCRIBING INFORMATION

Bupropion hydrochloride extended-release tablets USP (XL) "Medication Guide" enclosed.

Suicidality in Children and Adolescents

reased the risk of suicidal thinking and behavior (suicidality) in short-term studies in children and adolescents with Major Dep Disorder (MDD) and other psychiatric disorders. Anyone considering the use of bupropion hydrochloride extended-release tablets (XL) or any other antide pressant in a child or adolescent must balance this risk with the clinical need. Patients who are started on therapy should be observed closely for clinica sening, suicidality, or unusual changes in behavior. Families and caregivers should be advised of the need for close observation and comm with the prescriber. Bupropion hydrochloride extended-release tablets (XL) are not approved for the use in pediatric patients. (See WARNINGS and PRI

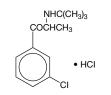
Pooled analyses of short-term (4 to 16 weeks) placebo-controlled trials of 9 antidepressant drups (SSRIs and others) in children and adolescents with ma ssive disorder (MDD), obsessive compulsive disorder (OCD), or other psychiatric disorders (a total of 24 trials involving over 4,400 patients) have reveal ter risk of adverse events representing suicidal thinking or behavior (suicidality) during the first few months of treatment in those receiving antidepressan a greater risk of adver The average risk of such events in patients receiving antidepressants was 4%, twice the placebo risk of 2%. No suicides occurred in these trials.

DESCRIPTION

Bupropion hydrochloride extended-release tablets (XL), an antidepressant of the aminoketone class, are chemically unrelated to tricyclic, tetracyclic, selective erotonin 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-f(1.1-dimethylethyl)amino1-1-propanone hydrochloride. The molecular weight is 276.2. The molecular formula is CINO-HCL Bupropion hydrochloride powder is white, crystalline, and highly soluble in water. It has a bitter taste and produces the sensation of local anes

The structural formula is:



Bupropion hydrochloride extended-release tablets (XL) are supplied for oral administration as 150-mg and 300-mg, round white to off-white extended-relea bulk of the stended release tablet may remain intact during gastrointestinal transit and is eliminated in the feces. USP drug release testing is pending.

CLINICAL PHARMACOLOGY

Pharmacodynamics: Bupropion is a relatively weak inhibitor of the neuronal uptake of norepinephrine, and dopamine, and does not inhibit monoamine oxidase or re re-uptake of serotonin. While the mechanism of action of bupropion, as with other antidepressants, is unknown, it is presumed that this action is mediated by drenergic and/or dopaminergic mechanisms.

Pharmacokinetics: Rupropion is a racemic mixture. The pharmacologic activity and pharmacokinetics of the individual enantiomers have not been studied. The nination half-life (±SD) of bupropion after chronic dosing is 21 (±9) hours, and steady-state place

In a study comparing 14-day dosing with hypropion hydrochloride extended-release tablets (XL) 300 mg once daily to the immediate-release formulation of the study comparing 14-04 obsing with buppoption hydrochronice extended-release abless (xL) sooning once daily to the immediate-release formulation of buppoption at the 3 metabolities (hydroxybuppoption, threohydrobuppoption, and erythrohydrobuppoption). Additionally, in a study comparing 14-day dosing with buppoption and the 3 metabolities (kL) soon go and er the curve for buppoption and the 3 metabolities.

Absorption: Following oral administration of huppopion hydrochloride extended-release tablets (XL) to healthy volunteers, time to peak plasma concentrations was approximately 5 hours and food did not affect the C_{max} or AUC of bupropion.

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

Metabolism: Bupropion is extensively metabolized in humans. Three metabolites have been shown to be active: hydroxybupropion, which is formed via hydrox metapoism: bupropion is extensively metapolized in numans. Innee metapolites nave been shown to be active: hydroxybupropion, which is formed via hydroxy-lation of the *terr*-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 cytochrome P450IIB6 (CYP2B6) is the principal isoenzyme involved in the formation of hydroxybupropion, while cytochrome P450 isoenzymes 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 bupro-pion, while threohydrobupropion and erythrohydrobupropion are 5-fold less potent than bupropion. This may be of clinical importance because the plasma con-centrations of the metabolities area so that phase no the humanion. entrations of the metabolites are as high or higher than those of bupropion.

Because bupropion is extensively metabolized, there is the potential for drug-drug interactions, particularly with those agents that are metabolized by the cytochrome P450IIB6 (CYP2B6) isoenzyme. Although bupropion is not metabolized by cytochrome P450IID6 (CYP2D6), there is the potential for drug-drug interactions when bupropion is co-administered with drugs metabolized by this isoenzyme (see PRECAUTIONS: Drug Interactions).

In humans, peak plasma concentrations of hydroxybupropion occur approximately 7 hours after administration of bupropion hydrochloride extended-rel blets (XL). Following administration of bupropion hydrochloride extended-release tablets (XL), peak plasma concentrations of hydroxybupropion are approximate-7 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 13 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, approximately 33 (±10) and 37 (±13) hours, respectively, and steady-state AUCs re 1.4 and 7 times that of bupropion, respectively.

Bupropion and its metabolites exhibit linear kinetics following chronic administration of 300 to 450 mg/day.

Elimination: Following oral administration of 200 mg of ¹⁴C-bupropion in humans, 87% and 10% of the radioactive dose were recovered in the urine and feces respectively. However, the fraction of the oral dose of bupropion excreted unchanged was only 0.5%, a finding consistent with the extensive metabolism of bupropion Population Subgroups: 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.

Hepatic: The effect of hepatic impairment on the pharmacokinetics of hunronion was characterized in 2 single-dose studies one in natients with alcoholic liver **repart:** The effect of heparc impairment on the pharmacokinetics of bupropion was characterized in 2 single-dose studies, one in patients with according the sease and one in patients with mild to severe cirrhosis. The first study showed that the half-life of hydroxybupropion was significantly longer in 8 patients with holici liver disease than in 8 healthy volunteers (32±14 hours versus 21±5 hours, respectively). Although not statistically significant, the AUCs for bupropion d hydroxybupropion were more variable and tended to be greater (by 53% to 57%) in patients with alcoholic liver disease. The differences in half-life for bupropion and the other metabolites in the 2 patient groups were minimal.

The second study showed no statistically significant differences in the pharmacokinetics of bupropion and its active metabolites in 9 patients with mild to m erate hepatic cirrhosis compared to 8 healthy volunteers. However, more variability was observed in some of the pharmacokinetic parameters for hupropion (AUC, C_{max} , and T_{max}) and its active metabolites ($t_{1/2}$) in patients with mild to moderate hepatic cirrhosis. In addition, in patients with severe hepatic cirrhosis, the bupropion C_{max} and AUC were substantially increased (mean difference: by approximately 70% and 3-fold, respectively) and more variable when compared to values in healthy volunteers; the mean bupropion half-life was also longer (29 hours in patients with severe hepatic cirrhosis vs 19 hours in healthy subjects). For the metabolites healthy volunteers, the mean bupropion half-line was also onger (29 hours in patients with severe hepatic cirritosis vs 19 hours in healthy subjects). For the mean life hydroxybupropion, the mean C_{max} was approximately 63% lower. For the combined amino-alcohol isomers threohydrobupropion and erythrohydrobupropion. The mean AUC increased by about 11/2-fold for hydroxybupropion, the average arythrohydrobupropion and albout 21/2-fold for threo/erythrohydrobupropion. The mean half-lives for hydrox bupropion and threo/erythrohydrobupropion. The mean half-lives for hydrox bupropion and threo/erythrohydrobupropion. The mean half-lives for hydrox bupropion and threo/erythrohydrobupropion. The mean half-lives for hydrox (see WARNINGS, PRECAUTIONS, and DOSAGE AND ADMINISTRATION).

Renal: There is limited information on the pharmacokinetics of buoropion in patients with renal impairment. An inter-study comparison between normal subpiects and patients with end-stage renal failure demonstrated that the parent drug C_{max} and AUC values were comparable in the 2 groups, whereas the hydroxybupro-pion and threohydrobupropion metabolites had a 2.3 and 2.8-fold increase, respectively, in AUC for patients with end-stage renal failure. The elimination of the major metabolites of bupropion may be reduced by impaired renal function (see PRECAUTIONS: Renal Impairment).

Left Ventricular Dysfunction: 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), no apparent effect on the pharmacokinetics of bupropion or its metabolites was revealed, compared to healthy volunteers.

Ane: The effects of age on the pharmacokinetics of hupropion and its metabolites have not been fully characterized, but an exploration of steady-state hupro-The enclose of age on the pharmacoxinetics of outproprior and its measurements have not been units characterized, but an exploration is searly state bup of centrations for several depression efficiency studies involving patients does din a range of 300 to 750 mg/day, on a 3 times daily schedule, revealed not hip between age (18 to 83 years) and plasma concentration of bupropion. A single-dose pharmacokinetic study demonstrated that the disposition of bupro its metabolites in elderly subjects was similar to that of younger subjects. These data suggest there is no prominent effect of age on bupropion concen-tion bup to the study of the study of the study of the study of the study demonstrated that the disposition of bupropion concen-tion bup to the study of the study demonstrated that the disposition of bupropion concen-tion bup to the study of the study demonstrated that the disposition of bup to the study of the ration; however, another pharmacokinetic study, single and multiple dose, has suggested that the elderly are at increased risk for accumulation of bupropion and ts metabolites (see PRECAUTIONS: Geriatric Use).

Gender: A single-dose study involving 12 healthy male and 12 healthy female volunteers revealed no sex-related differences in the pharmacokinetic parameters ters of bupropior

Smokers: The effects of cigarette smoking on the pharmacokinetics of buoropion were studied in 34 healthy male and female volunteers: 17 were chronic ci rette smokers and 17 were nonsmokers. Following oral administration of a single 150-mg dose of bupropion, there was no statistically significant differenc C_{max}, half-life, T_{max}, AUC, or clearance of bupropion or its active metabolites between smokers and nonsmokers. CLINICAL TRIALS

Major Depressive Disorder: The efficacy of bupropion as a treatment for major depressive disorder was established with the immediate-release formulation of Major Depressive Disorder: Ine emcacy of oupropion as a treatment for major depressive disorder was established with the immediate-release formulation of bupropion in two 4-week, placebo-controlled trials in adult inpatients and in one 6-week, placebo-controlled trials in adult outpatients. In the first study, patients were titrated in a bupropion dose range of 300 to 600 mg/day of the immediate-release formulation on a 3 times daily schedule; 78% of patients received maximum doses of 450 mg/day or less. This trial demonstrated the effectiveness of bupropion on the Hamilton Depression Rating Scale (HDRS) total score, the depressed mood item (item 1) from that scale, and the Clinical Global Impressions (CGI) severity score. A second study included 2 fixed doses of the immediate-release for-mulation of bupropion (300 and 450 mg/day) and placebo. This trial demonstrated the effectiveness of bupropion, but only at the 450-mg/day ose of the immediate-release for-mulation; the results were positive for the HDRS total score and the CGI severity score, but not for HDRS item 1. In the third study, outpatients

received 300 mo/day of the immediate-release formulation of hunronion. This study demonstrated the effectiveness of hunronion on the HDRS total score. HDRS Potential for Henatoloxicity: In rats receiving large doses of hunronion chronically, there was an increase in inc ntgomery-Asberg Depression Rating Scale, the CGI severity score, and the CGI improvement score

In a longer-term study, outpatients meeting DSM-IV criteria for major depressive disorder, recurrent type, who had responded during an 8-week open trial of suppoint (150 mg twice daily of the sustained-release formulation) were randomized to continuation of their same dose of bupropion or placebo, for up to 44 weeks of observation for relapse. Response during the open phase was defined as CGI Improvement score of 1 (very much improved) or 2 (much improved) for each of the final 3 weeks. Relapse during the double-bilned phase was defined as the investigator's judgment that drug treatment was needed for worsening depressive symptoms. Patients receiving continued bupropion treatment experienced significantly lower relapse rates over the subsequent 44 weeks compared to the received bub contract of the response to the subsequent 44 weeks compared to the response bub contract of the respons PRECAUTIONS General: Agitation and Insomnia: Increased restlessness, agitation, anxiety, and insomnia, especially shortly after initiation of treatment. have been associated with treatment with bupropion. Patients in placebo-controlled trials of major depressive disorder with the sustained-release formulation of bupropion, experienced agi-tation, anxiety, and insomnia as shown in Table 1. receiving placebo.

Although there are no independent trials demonstrating the antidepressant effectiveness of hunronion hydrochloride extended-release tablets (XI) Although there are no independent trials demonstrating the antidepressant effectiveness of bupropion hydrochloride extended-release tablets (XL), s emonstrated similar bioavailability of bupropion hydrochloride extended-release tablets (XL) to both the immediate-release formulation and to the lease formulations of bupropion under steady-state conditions, i.e., bupropion hydrochloride extended-release tablets (XL) 300 mg once daily was sho oavailability that was similar to that of 100 mg 3 times daily of the immediate-release formulation of bupropion and to that of 150 mg 2 times daily ined-release formulation of bupropion, with regard to both peak plasma concentration and extent of absorption, for parent drug and metabolites. INDICATIONS AND USAGE

Major Depressive Disorder: Bupropion hydrochloride extended-release tablets (XL) are indicated for the treatment of major depressive disorder be efficacy of bupropion in the treatment of a major depressive episode was established in two 4-week controlled trials of inpatients and in one 6-we toatients whose diagnoses corresponded most closely to the Major Depression category of the APA Diagnostic and Statistical Manual (DSM ICAL PHARMACOLOGY

A major depressive episode (DSM-IV) implies the presence of 1) depressed mood or 2) loss of interest or pleasure; in addition, at least 5 of the following symp-A find/of depressive episode (DoWHY) implies the presence of 1) depressed mode (2) loss of microscore pressive, in advance, in advance, and the contract of th ness, slowed thinking or impaired concentration, a suicide attempt, or suicidal ideation.

Therefore, co-administration of bupropion with drugs that are metabolized by CYP2D6 isoenzyme including certain antidepressants (e.g., nortriptylin of bupropion sustained-release tablets and 0.8% of patients treated with placebo. imipramine, desipramine, paroxetine, fluoxetine, sertraline), antipsychotics (e.g., haloperidol, risperidone, thioridazine), beta-blockers (e.g., metoprolol), and Type 1C antiarrhythmics (e.g., propafenone, flecainide), should be approached with caution and should be initiated at the lower end of the dose range of the concomi-Psychosis, Confusion, and Other Neuropsychiatric Phenomena: Depressed patients treated with bupropion have been reported to show a variety of neuropsy-The efficacy of buoropion in maintaining an antidepressant response for up to 44 weeks following 8 weeks of acute treatment was demonstrated in a placebochiatric signs and symptoms, including delusions, hallucinations, psychosis, concentration disturbance, paranoia, and confusion. In some cases, these symptoms abated upon dose reduction and/or withdrawal of treatment. tant medication. If bupropion is added to the treatment regimen of a patient already receiving a drug metabolized by CYP2D6, the need to decrease the dose of the original medication should be considered, particularly for those concomitant medications with a narrow therapeutic index. controlled trial with the sustained-release formulation of bupropion (see CLINICAL TRIALS). Nevertheless, the physician who elects to use bupropion hydrochlo de extended-release tablets (XL) for extended periods should periodically reevaluate the long-term usefulness of the drug for the individual patient Activation of Psychosis and/or Mania: Antidepressants can precipitate manic episodes in bipolar disorder patients during the depressed phase of their illness MAO Inhibitors: Studies in animals demonstrate that the acute toxicity of bupropion is enhanced by the MAO inhibitor phenelzine (see CONTRAINDICATIONS CONTRAINDICATIONS and may activate latent psychosis in other susceptible patients. Bupropion hydrochloride extended-release tablet (XL) is expected to pose similar risks. Bupropion hydrochloride extended-release tablets (XL) are contraindicated in patients with a seizure disorder

Bupropion hydrochloride extended-release tablets (XL) are contraindicated in patients treated with ZYBAN® or bupropion hydrochloride sustained-release tablets, WELLBUTRIN® or bupropion hydrochloride immediate-release formulation, WELLBUTRIN SR® or bupropion hydrochloride sustained-release formulation, or any other medications that contain bupropion because the incidence of seizure is dose dependent.

Bupprojund values indicating that communications in the instantial contraindicated in patients with a current or prior diagnosis of bulimia or anorexia nervosa because of a higher incidence of seizures noted in patients treated for bulimia with the immediate-release formulation of buppropion. Bupropion hydrochloride extended-release tablets (XL) are contraindicated in patients undergoing abrupt discontinuation of alcohol or sedatives (including ber

The concurrent administration of hunronion hydrochloride extended-release tablets (XL) and a monoamine oxidase (MAO) inhibitor is contraindicated. At least 4 days should elapse between discontinuation of an MAO inhibitor and initiation of treatment with bupropion hydrochloride extended-release tablets (Bupropion hydrochloride extended-release tablets (XL) are contraindicated in patients who have shown an allergic response to hypropion or the other ingredi

ents that make up bupropion hydrochloride extended-release tablets (XL). WARNINGS

In studies conducted with the immediate-release formulation of bupropion, 35% of patients receiving tricyclic antidepressants gained weight, compare Clinical Worsening and Suicide Risk: Patients with major depressive disorder (MDD), both adult and pediatric, may experience worsening of their depression of patients treated with the immediate-release formulation of bupropion. If weight loss is a major presenting sign of a patient's depressive illness, the anorection Bupropion produced a positive response (2 to 3 times control mutation rate) in 2 of 5 strains in the Ames bacterial mutagenicity test and an increase in chro 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. There has been a long-standing concern that antidepressants may have a role in inducing worsening of depression and the emergence of suicidality in certain patients. Antidepressants increased the risk of suicidal thinking and behavior (suicidality) in short-term studand/or weight-reducing potential of bupropion hydrochloride extended-release tablets (XL) should be considered. somal aberrations in 1 of 3 *in vivo* rat bone marrow cytogenetic studies. Allergic Reactions: Anaphylactoid/anaphylactic reactions characterized by symptoms such as pruritus, urticaria, angioedema, and dyspnea requiring medica eatment have been reported in clinical trials with bupropion. In addition, there have been rare spontaneous post-marketing reports of erythema multiforme A fertility study in rats at doses up to 300 mg/kg/day revealed no evidence of impaired fertility. ies in children and adolescents with Major Depressive Disorder (MDD) and other psychiatric disorders

Pooled analyses of short-term placebo-controlled trials of 9 antidepressant drugs (SSRIs and others) in children and adolescents with MDD. OCD, or other psy Pooled analyses of short-term placebo-controlled trials of 9 antidepressant drugs (SKHs and others) in children and addiescents with MDL, OCD, or other bsy-childric disorders (a total of 24 trials involving over 4,400 patients) have revealed a greater risk of adverse events representing suicidal behavior or thinking (suici-dality) during the first few months of treatment in those receiving antidepressants. The average risk of such events in patients receiving antidepressants was 4%, twice the placebo risk of 2%. There was considerable variation in risk among drugs, but a tendency toward an increase for almost all drugs studied. The risk of sui-cidality was most consistently observed in the MDD trials, but there were signals of risk arising from some trials in other psychiatric indications (obsessive com-pulsive disorder and social anxiety disorder) as well. **No suicides occurred in any of these trials**. It is unknown whether the suicidality risk in pediatric patients extends to longer-term use, i.e., beyond several months. It is also unknown whether the suicidality risk extends to adults.

When rats were administered bupropion at oral doses of up to 300 mo/kg/day (approximately 7 times the MRHD on a mg/mg² basis) prior to mating and through Cardiovascular Effects: In clinical practice, hypertension, in some cases severe, requiring acute treatment, has been reported in patients receiving bupropion out pregnancy and lactation, there were no apparent adverse effects on offspring development alone and in combination with nicotine replacement therapy. These events have been observed in both patients with and without evidence of pre-existing hyperter One study has been conducted in pregnant women. This retrospective, managed-care database study assessed the risk of congenital malformations overall, and cardiovascular malformations specifically, following exposure to bupropion in the first trimester compared to the risk of these malformations following exposure to other antidepressants in the first trimester and bupropion outside of the first trimester. This study included 7,005 infants with antidepressant exposure during preg-All pediatric patients being treated with antidepressants for any indication should be 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. Such observation would generally include at least weekly face-to-face contact with patients or their family members or caregivers during the first 4 weeks of treatment, then every other week visits for the next 4 weeks, then at 12 weeks, and as clinically indicated beyond 12 weeks. Additional contact by telephone may Data from a comparative study of the sustained-release formulation of bupropion, nicotine transdermal system (NTS), the combination of sustained-release nancy, 1,213 of whom were exposed to bupropion outside of the inst trimester. The study showed no greater risk for congenial malformations overall, or cardiovascular malformations specifically, following first trimester bupropion exposure compared to exposure to all other antidepressants in the first trimester, or bupropion out-side of the first trimester. The results of this study have not been corroborated. Bupropion hydrochloride extended-release tablets (XL) should be used during preg-nancy only if the potential benefit justifies the potential risk to the fetus. propion plus NTS, and placebo as an aid to smoking cessation suggest a higher incidence of treatment-emergent hypertension in patients treated with the mbination of sustained-release bupropion and NTS. In this study, 6.1% of patients treated with the combination of sustained-release bupropion and NTS had be appropriate between face-to-face visits. reatment-emergent hypertension compared to 2.5%, 1.6%, and 3.1% of patients treated with sustained-release bupropion, NTS, and placebo, respectively. The majority of these patients had evidence of pre-existing hypertension. Three patients (1.2%) treated with the combination of a ZYBAN® and NTS and 1 patient Adults with MDD or co-morbid depression in the setting of other psychiatric illness being treated with antidepressants should be observed similarly for linical worsening and suicidality, especially during the initial few months of a course of drug therapy, or at times of dose changes, either increases or (0.4%) treated with NTS had study medication discontinued due to hypertension compared to none of the patients treated with a sustained-release formulatio Labor and Delivery: The effect of bupropion hydrochloride extended-release tablets (XL) on labor and delivery in humans is unknown. uropion or placebo. Monitoring of blood pressure is recommended in patients who receive the combination of bupropion and nicotine replacement

Nursing Mothers: Like many other drugs, bupropion and its metabolites are secreted in human milk. Because of the potential for serious adverse reactions in nurs There is no clinical experience establishing the safety of bupropion hydrochloride extended-release tablets (XL) in patients with a recent history of myocardia ing infants from hunronion hydrochloride extended-release tablets (XL) a decision should be made whether to discontinue nursing or to discontinue the drug ta nfarction or unstable heart disease. Therefore, care should be exercised if it is used in these groups. Bupropion was well tolerated in depressed patients who had ng into account the importance of the drug to the mother pusiv developed orthostatic hypotension while receiving tricyclic antidepressants, and was also generally well tolerated in a group of 36 depressed inpatient Pediatric Use: Safety and effectiveness in the pediatric population have not been established (see BOX WARNING and WARNINGS: Clinical Worsening and Suicide th stable congestive heart failure (CHF). However, bupropion was associated with a rise in supine blood pressure in the study of patients with CHF, resulting in ation of treatment in 2 patients for exacerbation of baseline hypertensio Risk). Anyone considering the use of bupropion hydrochloride extended-release tablets (XL) in a child or adolescent must balance the potential risks with the cli

In addition, patients with a history of suicidal behavior or thoughts, those patients exhibiting a significant degree of suicidal ideation prior to commenc ment of treatment, and young adults, are at an increased risk of suicidal thoughts or suicide attempts, and should receive careful monitoring during treatme 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 depressive and/or the emergence of suicidal impulses has not been established, there is concern that such symptoms may represent precursors to emerging suicidality. Hepatic Impairment: Bupropion hydrochloride extended-release tablets (XL) should be used with extreme caution in patients with severe hepatic cirrhosis. In

Geriatric Use: Of the approximately 6.000 patients who participated in clinical trials with bupropion sustained-release tablets (depression and smoking cessatio hese patients, a reduced frequency and/or dose is required. Bupropion hydrochloride extended-release tablets (XL) should be used with caution in patients with nepatic impairment (including mild to moderate hepatic cirrhosis) and reduced frequency and/or dose should be considered in patients with mild to moderate hepat-Consideration should be given to changing the therapeutic regimen including possibly discontinuing the medication in patients whose degression is persis studies), 275 were ≥65 years old and 47 were ≥75 years old. In addition, several hundred patients 65 and over participated in clinical trials using the immediate release formulation of bupropion (depression studies). No overall differences in safety or effectiveness were observed between these subjects and younger sub ently worse, or who are experiencing emergent suicidality or symptoms that might be precursors to worsening depression or suicidality, especially toms are severe, abrupt in onset, or were not part of the patient's presenting symptoms. and the provide statics). No overall and there in addition of the elderly and younger patients, but greater sensitivity of some older in All patients with hepatic impairment should be closely monitored for possible adverse effects that could indicate high drug and metabolite levels (see CLINIviduals cannot be ruled out

Families and caregivers of pediatric 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 health care providers. Such monitoring should include daily observation by families and caregivers. Prescriptions for bupropion hydrochloride extended-release tablets (XL) should be written for the smallest quantity of tablets consistent with good patient management, in order to reduce the risk of overdose. Families and caregivers of adults being treated for PHARMACOLOGY, WARNINGS, and DOSAGE AND ADMINISTRATION). Renal Impairment: There is limited information on the pharmacokinetics of bupropion in patients with renal impairment. An inter-study comparison between A single-dose pharmacokinetic study demonstrated that the disposition of bupropion and its metabolites in elderly subjects was similar to that of younger subts; however, another pharmacokinetic study, single and multiple dose, has suggested that the elderly are at increased risk for accun etabolites (see CLINICAL PHARMACOLOGY). nema impairment: There is limited information on the pharmacokinetics of buppropion in patients with refraining antiferistic and patients with refraining and subsequently and 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 patients with end-stage renal failure. Bupropion is extensively metabolized in the liver to active metabolites, which are further metabolized and subsequently excreted by the kidneys. Bupropion hydrochloride extended-release tablets (XL) should be used with caution in patients with renal impairment and a reduced frequency and/or dose should be considered as bupropion and the metabolites of bupropion may accumulate in such patients to a greater extent than usual. The patient should be closely monitored for possible adverse effects that could indicate high drug or metabolite levels. Bupropion is extensively metabolized in the liver to active metabolites, which are further metabolized and excreted by the kidneys. The risk of toxic reaction to epression should be similarly advised. in dose selection, and it may be useful to monitor renal function (see PRECAUTIONS: Renal Impairment and DOSAGE AND ADMINISTRATION). ening Patients for Bipolar Disorder: A major depressive episode may be the initial presentation of bipolar disorder. It is generally believed (though not esta ADVERSE REACTIONS (See also WARNINGS and PRECAUTIONS.)

lished in controlled trials) that treating such an episode with an antidepressant alone may increase the likelihood of precipitation of a mixed/manic episode in patient: at risk for bipolar disorder. Whether any of the symptoms described above represent such a conversion is unknown. However, prior to initiating treatment with an depressant, patients with depressive symptoms should be adequately screened to determine if they are at risk for bipolar disorder; such screening should include a detailed psychiatric history, including a family history of suicide, bipolar disorder, and depression. It should be noted that bupropion hydrochloride extended-release tablets (XL) are not approved for use in treating bipolar depression

Patients should be made aware that buoronion hydrochloride extended-release tablets (XL) contain the same active ingredient found in ZYBAN or buoropion hydrochloride sustained-release tablets 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 bupropion hydrochloride sustained-release tablets, or any other medications that contain bupropion, suc

Patients should be advised of the following issues and asked to alert their prescriber if these occur while taking bupropion hydrochloride extended-release tablets (XL) as WELLBUTRIN SR or bupropion hydrochloride sustained-release formulation: and WELLBUTRIN or bupropion hydrochloride immediate-release formulat Clinical Worsening and Suicide Risk: Patients, their families, and their caregivers should be encouraged 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. Families and caregivers of patients should be advised 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 are severe, abrupt in onset, or were not part of the patient's prescriber or health professional, especially if they are severe, abrupt the onset or were not part of the patient's prescriber or health professional, especially if they are severe, abrupt the onset. Seizures: Bupropion is associated with a dose-related risk of seizures. The risk of seizures is also related to patient factors, clinical situations, and concomitant medications, which must be considered in selection of patients for therapy with bupropion hydrochloride extended-release tablets (XL). Bupropion hydrochloride extended-release tablets (XL) should be discontinued and not restarted in patients who experience a seizure while on treatment. As bupropion hydrochloride extended-release tablets (XL) are bioequivalent to both the immediate-release formulation of bupropion and to the sustained release formulation of bupropion, the seizure incidence with bupropion hydrochloride extended-release tablets (XL), while not formally evaluated in clinical trials, may be similar to that presented below for the immediate-release and sustained-release formulations of bupropion. hannes in the medication

• Dose: At doses up to 300 mg/day of the sustained-release formulation of bupropion, the incidence of seizure is approximately 0.1% (1/1,000).

Data for the immediate-release formulation of bupropion revealed a seizure incidence of approximately 0.4% (i.e., 13 of 3,200 patients followed prospec-tively) in patients treated at doses in a range of 300 to 450 mg/day. This seizure incidence (0.4%) may exceed that of some other marketed antidepressants.

Additional data accumulated for the immediate-release formulation of bupropion suggested that the estimated seizure incidence increases almost ten-fold between 450 and 600 mg/day. The 600 mg dose is twice the usual adult dose and one and one-third the maximum recommended daily dose (450 mg) of bupropion hydrochloride extended-release tablets (XL). This disproportionate increase in seizure incidence with dose incrementation calls for caution Patients should be told that bupropion hydrochloride extended-release tablets (XL) should be discontinued and not restarted if they experience a seizure while In clinical trials with the immediate-release formulation of bupropion, 10% of patients and volunteers discontinued due to an adverse event. Events resulting i Patients should be told that any CNS-active drug like bupropion hydrochloride extended-release tablets (XL) may impair their ability to perform tasks requiring Patient factors: Predisposing factors that may increase the risk of seizure with bupropion use include history of head trauma or prior seizure, central nervous system (CNS) tumor, the presence of severe hepatic cirrhosis, and concomitant medications that lower seizure threshold. discontinuation, in addition to those listed above for the sustained-release formulation of bupropion, include vomiting, seizures, and sleep disturbances udgment or motor and cognitive skills. Consequently, until they are reasonably certain that bupropion hydrochloride extended-release tablets (XL) do not adverse y affect their performance, they should refrain from driving an automobile or operating complex, hazardous machinery.

- Clinical situations: Circumstances associated with an increased seizure risk include, among others, excessive use of alcohol or sedatives (including benzodiazepines); addiction to opiates, cocaine, or stimulants; use of over-the-counter stimulants and anorectics; and diabetes treated with oral hypoglycemics or insuli
- Concomitant medications: Many medications (e.g., antipsychotics, antidepressants, theophylline, systemic steroids) are known to lower seizure threshold Recommendations for Reducing the Risk of Seizure: Retrospective analysis of clinical experience gained during the development of bupropion suggests that the risk of seizure may be minimized if
- the total daily dose of bupropion hydrochloride extended-release tablets (XL) does not exceed 450 mg.
- the rate of incrementation of dose is gradual.

Patients should be advised that they may notice in their stool something that looks like a tablet. This is normal. The medication in bupropion hydrochloride Bupropion hydrochloride extended-release tablets (XL) should be administered with extreme caution to patients with a history of seizure, cranial trauma extended-release tablets (XL) is contained in a non-absorbable shell that has been specially designed to slowly release drug in the body. When this process is com pleted, the empty shell is eliminated from the body. on(s) toward seizure, or patients treated with other agents (e.g., antipsychotics, other antidepressants, theophylline, systemic steroids, etc.) that lower seizure threshold

Hepatic Impairment: Bupropion hydrochloride extended-release tablets (XL) should be used with extreme caution in patients with severe hepatic cirrhosis Laboratory Tests: There are no specific laboratory tests recommended. In these patients a reduced frequency and/or dose is required, as peak burpopion, as well as AUC, levels are substantially increased and accumulation is likely to occur in such patients to a greater extent than usual. The dose should not exceed 150 mg every other day in these patients (see CLINICAL PHARMA-COLIC) Drug Interactions: Few systemic data have been collected on the metabolism of bupropion following concomitant administration with other drugs or, alternatively the effect of concomitant administration of bupropion on the metabolism of other drugs PRECAUTIONS, and DOSAGE AND ADMINISTRATION)



10-100

Bupropion Hydrochloride

Bupropion Hydrochloride Extended-Release Tablets USP (XL)



phy. In dogs receiving large doses of bupropion chronically, various histologic changes were seen in the liver, and laboratory tests suggestin r injury were noted

), studies have the sustained-	Table 1. Incidence of Agitation, Anxiety, and Insomnia in Placebo-Controlled Trials				
shown to have		Sustained-release	Sustained-release		
ily of the sus-		formulation of bupropion	formulation of bupropion		
		300 mg/day	400 mg/day	Placebo	
	Adverse Event Team	(n=376)	(n=114)	(n=385)	
	Agitation	3%	9%	2%	
eek controlled M) (see CLIN-	Anxiety	5%	6%	3%	
IVI) (SEE OLIN-	Insomnia	11%	16%	6%	

In clinical studies of major depressive disorder, these symptoms were sometimes of sufficient magnitude to require treatment with sedative/hypnotic drugs Symptoms in these studies were sufficiently severe to require discontinuation of treatment in 1% and 2.6% of patients treated with 300 and 400 mg/day, respec-

Altered Appetite and Weight: In placebo-controlled studies of major depressive disorder using the sustained-release formulation of bupropion, patients experienced weight gain or weight loss as shown in Table 2.

I.,				
,		Table 2. Incidence of Weight Gain and V	Veight Loss in Placebo-Controlled Trial	s
se		Sustained-release	Sustained-release	
		formulation of bupropion	formulation of bupropion	
n-		300 mg/day	400 mg/day	Placebo
st	Weight Change	(n=339)	(n=112)	(n=347)
li-	Gained >5lbs	3%	2%	4%
11-	Lost >5lbs	14%	19%	6%

Stevens-Johnson syndrome, and anaphylactic shock associated with bupropion. A patient should stop taking bupropion hydrochloride extended-release tablets (XL) and consult a doctor if experiencing allergic or anaphylactoid/anaphylactic reactions (e.g., skin rash, pruritus, hives, chest pain, edema, and shortness of breath) during treatment

Arthralgia, myalgia, and fever with rash and other symptoms suggestive of delayed hypersensitivity have been reported in association with hyperpoint. These symptoms may resemble serum sickness.

Information for Patients: Prescribers or other health professionals should inform natients, their families, and their carenivers about the benefits and risks assoc ated with treatment with bupropion hydrochloride extended-release tablets (XL) and should counsel them in its appropriate use. A Medication Guide About Using Antidepressants in Children and Teenagers is available for bupropion hydrochloride extended-release tablets (XL). The prescriber or health professional should instruct patients, their families, and their caregivers to read the Medication Guide and should 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 Guides reprinted at the end of this document

Patients should be made aware that bupropion bydrochloride extended-release tablets (XL) contains the same active ingredient found in ZYBAN or a sustaine release formulation of bupropion, 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 a sustained-release formulation of bupropion, or any other medications that contain bupropion hydrochloride (such as other ustained-release formulation of bupropion, and immediate-release formulation of bupropion).

Patients should be told that the excessive use or abrupt discontinuation of alcohol or sedatives (including benzodiazepines) may alter the seizure threshold. Some patients have reported lower alcohol tolerance during treatment with bupropion hydrochloride extended-release tablets (XL). Patients should be advised that he consumption of alcohol should be minimized or avoided.

Patients should be advised to inform their physicians if they are taking or plan to take any prescription or over-the-counter drugs. Concern is warranted because bupropion hydrochloride extended-release tablets (XL) and other drugs may affect each other's metabolism

Patients should be advised to notify their physicians if they become pregnant or intend to become pregnant during therapy

Patients should be advised to swallow bupropion hydrochloride extended-release tablets (XL) whole so that the release rate is not altered. Do not chew, divide

Because hubropion is extensively metabolized, the coadministration of other drugs may affect its clinical activity. In vitro studies indicate that hubropion is pri Because bupropion is extensively metabolized, the coadministration of other drugs may affect its clinical activity. In vitro studies indicate that bupropion is pri-marily metabolized to hydroxybupropion by the CYP286 isoenzyme. Therefore, the potential exists for a drug interaction between bupropion hydrochloride extended-release tablets (XL) and drugs that are substrates or inhibitors of the CYP286 isoenzyme (e.g., orphenadrine, thiotepa, and cyclophosphamide). In addition, *in vitro* studies suggest that paroxetine, sertraline, norfluoxetine, and fluoxamine as well as nelfinavir, ritonavir, and efavirenz inhibit the hydroxylation of bupropion. No clinical studies have been performed to evaluate this finding. The threohydrobupropion metabolite of bupropion does not appear to be produced by the cytochrome P450 isoenzymes. The effects of concomitant administration of two 150-mg tablets of the sustained-release formulation of bupropion with and without 800 mg of einstiding the phoremochization of bupropion purposing under the subtained field, and or propion with and without 800 mg of dine, the pharmacokinetics of bupropion and hydroxybupropion were unaffected. However, there were 16% and 32% increases in the AUC and Cmout respectively of the pharmacokinetics of bupropion and hydroxybupropion were unaffected. tively, of the combined moieties of threohydrobupropion and erythrohydrobupropion.

While not systematically studied, certain drugs may induce the metabolism of bupropion (e.g., carbamazepine, phenobarbital, phenytoin).

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

Animal data indicated that bupropion may be an inducer of drug-metabolizing enzymes in humans. In one study, following chronic administration of bupropi on, 100 mg 3 times daily to 8 healthy male volunteers for 14 days, there was no evidence of induction of its own metabolism. Nevertheless, there may be the poten tial for clinically important alterations of blood levels of coadministered drugs.

Druns Metabolized By Cytochrome P450IID6 (CYP2D6): Many druns, including most antidepressants (SSRIs, many tricyclics), beta-blockers, antiarrhythmic In antipsychotics are metabolized by the CYP2D6 isoenzyme. Although bupropion is not metabolized by this isoenzyme, bupropion and hydroxybupropion are hhibitors of CYP2D6 isoenzyme *in vitro*. In a study of 15 male subjects (ages 19 to 35 years) who were extensive metabolizers of the CYP2D6 isoenzyme, daily loses of bupropion given as 150 mg twice daily followed by a single dose of 50 mg desipramine increased the *C*max. AUC. and tr₁₂ 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.

Levodopa and Amantadine: Limited clinical data suggest a higher incidence of adverse experiences in patients receiving bupropion concurrently with either levodopa or amantadine. Administration of bupropion hydrochloride extended-release tablets (XL) to patients receiving either levodopa or amantadine concurrently should be undertaken with caution, using small initial doses and gradual dose increases.

Drugs That Lower Seizure Threshold: Concurrent administration of bupropion hydrochloride extended-release tablets (XL) and agents (e.g., antipsychotics, other antidepressants, theophylline, systemic steroids, etc.) that lower seizure threshold should be undertaken only with extreme caution (see WARNINGS). Low initial dosing and gradual dose increases should be employed.

Nicotine Transdermal System: (see PRECAUTIONS: Cardiovascular Effects).

Alcohol: In postmarketing experience, there have been rare reports of adverse neuropsychiatric events or reduced alcohol tolerance in patients who were drink ing alcohol during treatment with bupropion. The consumption of alcohol during treatment with bupropion hydrochloride extended-release tablets (XL) should be minimized or avoided (also see CONTRAINDICATIONS).

Carcinogenesis. Mutagenesis. Impairment of Fertility: Lifetime carcinogenicity studies were performed in rats and mice at doses up to 300 and 150 mg/kg/da Respectively. These doses are approximately 7 and 2 times the maximum recommended human dose (MRHD), respectively, on a mg/m² basis. In the rat study ther was an increase in nodular proliferative lesions of the liver at doses of 100 to 300 mg/kg/day (approximately 2 to 7 times the MRHD on a mg/m² basis); lower dose were not tested. The question of whether or not such lesions may be procursors of neoplasms of the liver at currently unresolved. Similar liver lesions were no tested. The question of whether or not such lesions may be procursors of neoplasms of the liver is currently unresolved. Similar liver lesions were no tested in the mouse study, and no increase in malignant tumors of the liver and other organs was seen in either study.

Pregnancy: Teratogenic Effects: Pregnancy Category C. In studies conducted in rats and rabbits, bupropion was administered orally at doses up to 450 and 150 mg/kg/day, respectively (approximately 11 and 7 times the maximum recommended human dose [MRHD], respectively, on a mg/m² basis), during the period of enesis. No clear evidence of teratogenic activity was found in either species; however, in rabbits, slightly increased incidences of fetal malformations and eletal 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 weigl vere seen at 50 mg/kg and greater.

Major Depressive Disorder: Bupropion hydrochloride extended-release tablets (XL) have been demonstrated to have similar bioavailability both to the immediat release formulation of bupropion and to the sustained-release formulation of bupropion (see CLINICAL PHARMACOLOGY). The information included under this subsection is based primarily on data from controlled clinical trials with the sustained-release formulation of bupropion.

Adverse Events Leading to Discontinuation of Treatment With the Immediate-Release or Sustained-Release Formulations of Bupropion: In placebo-controlled cli cal trials, 9% and 11% of patients treated with 300 and 400 mg/day, respectively, of the sustained-release formulation of bupropion and 4% of patients treated with placebo discontinued treatment due to adverse events. The specific adverse events in these trials that led to discontinuation in at least 1% of patients treated with either 300 mg/day or 400 mg/day of the sustained-release formulation of bupropion, and at a rate at least twice the placebo rate are listed in Table 3

Tabl	e 3. Treatment Discontinuations Due to	Adverse Events in Placebo-Controlled 1	irials
	Sustained-release	Sustained-release	
	formulation of bupropion	formulation of bupropion	
	300 mg/day	400 mg/day	Placebo
Adverse Event Team	(n=376)	(n=114)	(n=385)
Rash	2.4%	0.9%	0.0%
Nausea	0.8%	1.8%	0.3%
Agitation	0.3%	1.8%	0.3%
Migraine	0.0%	1.8%	0.3%

Adverse Events Occurring at an Incidence of 1% or More Among Patients Treated With the Immediate-Release or Sustained-Release Formulations of Bupropion: Table 4 enumerates treatment-emergent adverse events that occurred among patients treated with 300 and 400 mg/day of the sustained-release for-mulation of bupropion and with placebo in controlled trials. Events that occurred in either the 300- or 400-mg/day group at an incidence of 1% or more and were more frequent than in the placebo group are included. Reported adverse events were classified using a COSTART-based Dictionary.

Accurate estimates of the incidence of adverse events associated with the use of any drug are difficult to obtain. Estimates are influenced by drug dose, deter tion technique, setting, physician judgments, etc. The figures cited cannot be used to predict precisely the incidence of untoward events in the course of usual med-ical practice where patient characteristics and other factors differ from those that prevailed in the clinical trials. These incidence figures also cannot be compared with those obtained from other clinical studies involving related drug products as each group of drug trials is conducted under a different set of conditions

Finally, it is important to emphasize that the tabulation does not reflect the relative severity and/or clinical importance of the events. A better perspective on the serious adverse events associated with the use of bupropion is provided in the WARNINGS and PRECAUTIONS sections.

PHARMACIST—DETACH HERE AND GIVE MEDICATION GUIDE TO PATIENT.

Medication Guide

Bupropion hydrochloride extended-release tablets USP (XL)

tead this Medication Guide carefully before you start using bupropion hydrochloride extended-release tablets (XL) and each time you get a refill. There may be new information. This information does not take the place of talking with your doctor about your medical condition or your treatment. If you hav any questions about bupropion hydrochloride extended-release tablets (XL), ask your doctor or pharmacist.

MPORTANT: Be sure to read the section of this Medication Guide beginning with "What is the most important information I should know about bupropior hydrochloride extended-release tablets (XL)?" It contains important information about this medication. It immediately follows the next section called "About Using Antidepressants in Children and Teenagers."

About Using Antidepressants in Children and Teenagers

What is the most important information I should know if my child is being prescribed an antidepressant? Parents or guardians need to think about 4 important things when their child is prescribed an antidepressant:

- There is a risk of suicidal thoughts or actions
- 2. How to try to prevent suicidal thoughts or actions in your child
- 3. You should watch for certain signs if your child is taking an antidepressan
- 4 There are benefits and risks when using antidepressants

There is a Risk of Suicidal Thoughts or Actions

hildren and teenagers sometimes think about suicide, and many report trying to kill themselves.

ntidepressants increase suicidal thoughts and actions in some children and teenagers. But suicidal thoughts and actions can also be caused by depress serious medical condition that is commonly treated with antidepressants. Thinking about killing yourself or trying to kill yourself is called *suicidality or be*

A large study combined the results of 24 different studies of children and teenagers with depression or other illnesses. In these studies, patients took either a placebo (sugar pill) or an antidepressant for 1 to 4 months. *No one committed suicide in these studies,* but some patients became suicidal. On sugar pills, 2 out of every 100 became suicidal. On the antidepressants, 4 out of every 100 patients became suicidal.

For some children and teenagers, the risks of suicidal actions may be especially high. These include patients with

- Bipolar illness (sometimes called manic-depressive illness)
- A family history of bipolar illness A personal or family history of attempting suicide
- lf any of these are present, make sure you tell your healthcare provider before your child takes an antidepressan

2. How to Try to Prevent Suicidal Thoughts and Actions

To try to prevent suicidal thoughts and actions in your child, pay close attention to changes in her or his moods or actions, especially if the changes occur uddenly. Other important people in your child's life can help by paying attention as well (e.g., your child, brothers and sisters, teachers, and other importa eople). The changes to look out for are listed in Section 3, on what to watch for.

Whenever an antidepressant is started or its dose is changed, pay close attention to your child. After starting an antidepressant, your child should generally see his or her healthcare provider

Once a week for the first 4 weeks

- Every 2 weeks for the next 4 weeks
- After taking the antidepressant for 12 weeks

· After 12 weeks, follow your healthcare provider's advice about how often to come back

More often if problems or questions arise (see Section 3)

'ou should call your child's healthcare provider between visits if needer

3. You Should Watch For Certain Signs if Your Child is Taking an Antidepressant

Contact your child's healthcare provider *right away* if your child exhibits any of the following signs for the first time, or they seem worse, or worry you, vour child, or vour child's teacher

- Thoughts about suicide or dying
- Attempts to commit suicide
- · New or worse depression
- New or worse anxiety
- · Feeling very agitated or restless
- Panic attacks
- Difficulty sleeping (insomnia
- New or worse irritability
- Acting aggressive, being angry, or violen
- Acting on dangerous impulses
- An extreme increase in activity and talkin
- Other unusual changes in behavior or mood

Never let your child stop taking an antidepressant without first talking to his or her healthcare provider. Stopping an antidepressant suddenly can cause other

. There are Benefits and Risks When Using Antidepressants

Antidepressants are used to treat depression and other illnesses. Depression and other illnesses can lead to suicide. In some children and teenagers, treatment with an antidepressant increases suicidal thinking or actions. It is important to discuss all the risks of treating depression and also the risks of not treating it. ou and your child should discuss all treatment choices with your healthcare provider, not just the use of antidepressants.

Other side effects can occur with antidepressants (see section below)

Of all antidepressants, only fluoxetine (Prozac[®])^{*} has been FDA approved to treat pediatric depression.

For obsessive compulsive disorder in children and teenagers, FDA has approved only fluoxetine (Prozac®)*, sertraline (Zoloft®)*, fluvoxamine, and Iominramine (Anafranil®

our healthcare provider may suggest other antidepressants based on the past experience of your child or other family members

Is this all I need to know if my child is being prescribed an antidepressant?

No. This is a warning about the risk of suicidality. Other side effects can occur with antidepressants. Be sure to ask your healthcare provider to explain all to this is a waiting about the tisk of solution, other side energy and occur with anticepressants, be such the ne side effects of the particular drug he or she is prescribing. Also ask about drugs to avoid when taking an a r pharmacist where to find more information.

What is the most important information I should know about bupropion hydrochloride extended-release tablets (XL)?

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.

be chance of having seizures increases with higher doses of hunronion hydrochloride extended-release tablets (XII). For more information, see the sec tions "Who should not take bupropion hydrochloride extended-release tablets (XL)?" and "What should I tell my doctor before using bupropion hydrochloride extended-release tablets (XL)?" and "What should I tell my doctor before using bupropion hydrochloride extended-release tablets (XL)?" and "What should I tell my doctor before using bupropion hydrochloride extended-release tablets (XL)?" and "What should I tell my doctor before using bupropion hydrochloride extended-release tablets (XL)?" and "What should I tell my doctor before using bupropion hydrochloride extended-release tablets (XL)?" and "What should I tell my doctor before using bupropion hydrochloride extended-release tablets (XL)?" and "What should I tell my doctor before using bupropion hydrochloride extended-release tablets (XL)?" and "What should I tell my doctor before using bupropion hydrochloride extended-release tablets (XL)?" and "What should I tell my doctor before using bupropion hydrochloride extended-release tablets (XL)?" and "What should I tell my doctor before using bupropion hydrochloride extended-release tablets (XL)?" Tell your doctor about all of your medical conditions and all the medicines you take. Do not take any other medicines while you are using bupropion hydrochloride extended-release tablets (XL) unless your doctor 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 doctor right away. Do not take bupropion hydrochloride extended-release tablets (XL) again if you have a seizure.

What is important information I should know and share with my family about taking antidepressants?

Patients and their families should watch out for worsening depression or thoughts of suicide. Also watch out for sudden or severe changes in feelings a dense and then namines should be for worsening uppression of holygins of source. Now watch but for source of severe changes in reening such as feeling anxious, agitated, panicky, initiable, hostie, aggressive, impulsive, severely restless, overly excited and hyperactive, not being able to sleep or other unusual changes in behavior. If this happens, especially at the beginning of antidepressant treatment or after a change in dose, call your doctor For additional information see section above entitled "About Using Antidepressants in Children and Teenagers," bupropion hydrochloride extended-release tablet (XL) has not been studied in children under the age of 18 and is not approved for use in children and teenager

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

supropion hydrochloride extended-release tablets (XL) are a prescription medicine used to treat adults with a certain type of depression called major depress

Who should not take bupropion hydrochloride extended-release tablets (XL)?

- Do not take bupropion hydrochloride extended-release tablets (XL) if you
- have or had a seizure disorder or epilepsy.
- are taking ZYBAN® (used to help people stop smoking) or any other medicines that contain bupropion hydrochloride, such as bupropion nydrochloride tablets or bupropion hydrochloride sustained-release tablets. Bupropion is the same active ingredient that is in bu
- drink a lot of alcohol and abruptly stop drinking, or use medicines called sedatives (these make you sleepy) or benzodiazepines and you stop using them all of a sudden
- have taken within the last 14 days medicine for depression called a monoamine oxidase inhibitor (MAOI), such as NARDIL[®] (phenelzine sulfate) PARNATE[®] (tranylcypromine sulfate), or MARPLAN[®] (isocarboxazid)*. • have or had an eating disorder such as anorexia nervosa or bulimia.

 are allergic to the active ingredient in burronion bydrochloride extended-release tablets (XL) burronion or to any of the inactive ingredients. See e end of this leaflet for a complete list of ingredients in bupropion hydrochloride e

What should I tell my doctor before using bupropion hydrochloride extended-release tablets (XL)?

- Tell your doctor about your medical conditions. Tell your doctor if you
- are pregnant or plan to become pregnant. It is not known if bupropion hydrochloride extended-release tablets (XL) can harm your unborn baby. are breastfeeding. Bupropion hydrochloride extended-release tablets (XL) passes through your milk. It is not known if bupropion hydrochloride extended-release tablets (XL) can harm your baby.
- have liver nrohlems, especially cirrhosis of the liver
- have kidney problems.
- have an eating disorder, such as anorexia nervosa or bulimia.
- 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 a lot of alcohol.
- abuse prescription medicines or street drugs
- Tell your doctor about all the medicines you take, including prescription and non-prescription 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 using buppopion hydrochloride extended-release tablets (XL).

Bupropion hydrochloride extended-release tablets (XL) have not been studied in children under the age of 18 years.

How should I take bupropion hydrochloride extended-release tablets (XL)? Take bupropion hydrochloride extended-release tablets (XL) exactly as prescribed by your doctor.

- Do not chew, cut, or crush bupropion hydrochloride extended-release tablets (XL). You must swallow the tablets whole. Tell your doctor if you
- Take bupropion hydrochloride extended-release tablets (XL) at the same time each day.
- 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 tablet to make up for the dose you forgot. Wait and take your next tablet at the regular time. This is very important. Too much bupropion hydrochloride extended-release tablets (XL) can increase your chance of having a seizure.
- · If you take too much bupropion hydrochloride extended-release tablets (XL), or overdose, call your local emergency room or poison control cen
- The bupropion hydrochloride extended-release tablet (XL) is covered by a shell that slowly releases the medicine inside your body. You may notice
 something in your stool that looks like a tablet. This is normal. This is the empty shell passing from your body.
- Do not take any other medicines while using bupropion hydrochloride extended-release tablets (XL) unless your doctor has told you it is okay. If you are taking bup option hydrochloride extended-release tablets (XL) for the treatment of major depressive disorder, it may take several weeks for you to feel that bupropion hydrochloride extended-release tablets (XL) is working. Once you feel better, it is important to keep taking bupropion hydrochloride extended-release tablets (XL) exactly as directed by your doctor. Call your doctor if you do not feel bupropion hydrochloride extended-
- release tablets (XL) is working for you. • Do not change your dose or stop taking bupropion hydrochloride extended-release tablets (XL) without talking with your doctor first.
- What should I avoid while taking bupropion hydrochloride extended-release tablets (XL)?

· Do not drink a lot of alcohol while taking bupropion hydrochloride extended-release tablets (XL)

- If you usually drink a lot of alcohol, talk with your doctor before suddenly stopping. If you suddenly stop drinking alcohol, you may increase your
- Do not drive a car or use heavy machinery until you know how bupropion hydrochloride extended-release tablets (XL) affects you, Bupropion build a live a call of the set and the set
- Seizures. Some patients get seizures while taking bupropion hydrochloride extended-release tablets (XL). If you have a seizure while taking bupropion hydrochloride extended-release tablets (XL), stop taking the tablets and call your doctor right away. Do not take bupropion de extended-release tablets (XL) again if you have a seizur
- Hypertension (high blood pressure). Some patients get high blood pressure, sometimes severe, while taking bupropion hydrochloride extended-release tablets (XL). The chance of high blood pressure may be increased if you also use nicotine replacement therapy (for example, a nicotine patch) to help you stop smoking.
- Severe allergic reactions. Stop bupropion hydrochloride extended-release tablets (XL) and call your doctor 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 breathin These could be signs of a serious allergic reaction.
- 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 doctor.
- Common side effects reproted in studies of major depressive disorder include weight loss, loss of appetite, dry mouth, skin rash, sweating, ringing in th ears, shakiness, stomach pain, agitation, anxiety, dizziness, trouble sleeping, muscle pain, nausea, fast heartbeat, sore throat, and urinating more often. If you have nausea, take your medicine with food. If you have trouble sleeping, do not take your medicine too close to bedtime.
- Tell your doctor right away about any side effects that bother you.

These are not all the side effects of bupropion hydrochloride extended-release tablets (XL). For a complete list, ask your doctor or pharmacist

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

- Store bupropion hydrochloride extended-release tablets (XL) at room temperature. Store out of direct sunlight. Keep bupropion hydrochloride extended-release tablets (XL) in its tightly closed bottle.

• Bupropion hydrochloride extended-release tablets (XL) may have an odor. General Information about 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-releas 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. Keep bupropion hydrochloride extended-release tablets (XL) out of the reach of children.

This Medication Guide summarizes important information about bupropion hydrochloride extended-release tablets (XL). For more information, talk with your doctor. You can ask your doctor or pharmacist for information about bupropion hydrochloride extended-release tablets (XL) that is written for health

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

Active ingredient: bupropion hydrochloride.

Inactive ingredients: dehydrated alcohol, ethylcellulose, hydrochloric acid, hydroxypropylcellulose, methacrylic acid copolymer, povidone, silicon dioxide, hydrogenated vegetable oil and ethyl alcohol. The tablets are printed with edible black ink. The following are registered trademarks of their respective manufacturers: PRO7AC®/Fli Lilly and Company: 701 OFT®/Pfizer Pharmaceuticals: LIV/OX®/Solvay

armaceuticals, Inc/ANAFRANIL®/Mallinckrodt Inc.; NARDIL®/Warner Lambert Company; MARPLAN®/Oxford Pharmaceutical Services, Inc.; PARNATE This Medication Guide has been approved by the U.S. Food and Drug Administration





	Table 4. Treatment-Emergent Adver		
	Sustained-release	Sustained-release	
	formulation of bupropion	formulation of bupropion	
Body System/	300 mg/day	400 mg/day	Placebo
Adverse Event	(n=376)	(n=114)	(n=385)
Body (General)			
Headache	26%	25%	23%
Infection	8%	9%	6%
Abdominal pain	3%	9%	2%
Asthenia	2%	4%	2%
Chest pain	3%	4%	1%
Pain	2%	3%	2%
Fever	1%	2%	2 /0
Cardiovascular	1 /6	2 /8	
	201	01/	201
Palpitation	2%	6%	2%
Flushing	1%	4%	
Migraine	1%	4%	1%
Hot flashes	1%	3%	1%
Digestive			
Dry mouth	17%	24%	7%
Nausea	13%	18%	8%
Constipation	10%	5%	7%
Diarrhea	5%	7%	6%
Anorexia	5%	3%	2%
Vomiting	5% 4%	2%	
5	4% 0%	2%	2% 0%
Dysphagia	0%	2%	0%
Musculoskeletal			
Myalgia	2%	6%	3%
Arthralgia	1%	4%	1%
Arthritis	0%	2%	0%
Twitch	1%	2%	
Nervous System			
Insomnia	11%	16%	6%
Dizziness	7%	11%	5%
Agitation	3%	9%	2%
Anxiety	5%	6%	3%
Tremor	6%	3%	1%
Nervousness	5%	3%	3%
Somnolence	2%	3%	2%
Irritability	3%	2%	2%
Memory decreased		3%	1%
Paresthesia	1%	2%	1%
Central nervous system stimulation	2%	1%	1%
Respiratory			
Pharyngitis	3%	11%	2%
Sinusitis	3%	1%	2%
Increased cough	1%	2%	1%
Skin			
Sweating	6%	5%	2%
Rash	5%	4%	1%
Pruritus	2%	4%	2%
Urticaria	2%	1%	0%
Special senses			
Tinnitus	6%	6%	2%
			£ /0
Taste Perversion	2%	4%	
Amblyopia	3%	2%	2%
Urogenital			
Urinary frequency	2%	5%	2%
Urinary Urgency +		2%	0%
Vaginal Hemorrhage [†]	0%	2%	
Urinary tract Infection	1%	0%	

Adverse events that occurred in at least 1% of patients treated with either 300 or 400 mg/day of the sustained-release formulation of bupropion, but equally or nore frequently in the placebo group, were: abnormal dreams, accidental injury, acne, appetite increased, back pain, bronchitis, dysmenorrhea, dyspepsia, flatuence, flu syndrome, hypertension, neck pain, respiratory disorder, rhinitis, and tooth disorder.

Incidence based on the number of female patients.

Hyphen denotes adverse events occurring in greater than 0 but less than 0.5% of patients.

Additional events to those listed in Table 4 that occurred at an incidence of at least 1% in controlled clinical trials of the immediate-release formulation of bupron (300 to 600 mg/day) and that were numerically more frequent than placebo were: cardiac arrhythmias (5% vs 4%), hypertension (4% vs 2%), hypotension 6 vs 2%), tachycardia (11% vs 9%), appetite increase (4% vs 2%), dyspepsia (3% vs 2%), menstrual complaints (5% vs 1%), akathisia (2% vs 1%), impaired Bupro ep quality (4% vs 2%), sensory disturbance (4% vs 3%), confusion (8% vs 5%), decreased libido (3% vs 2%), hostility (6% vs 4%), auditory disturbance (5% 3%) and gustatory disturbance (3% vs 1%)

Incidence of Commonly Observed Adverse Events in Controlled Clinical Trials:

Adverse events from Table 4 occurring in at least 5% of patients treated with the sustained-release formulation of bupropion and at a rate at least twice the Store at 20-25°C (68-77°F) [see USP Controlled Room Temperature] lacebo rate are listed below for the 300- and 400-mg/day dose groups.

300 mg/day of the Sustained-Release Formulation: Anorexia, dry mouth, rash, sweating, tinnitus, and tremor.

400 mg/day of the Sustained-Release Formulation: Abdominal pain, agitation, anxiety, dizziness, dry mouth, insomnia, myalgia, nausea, palpitation, pharyngitis,

Other Events Observed During the Clinical Development and Postmarketing Experience of Bupropion: In addition to the adverse events noted above, the follow-ing events have been reported in clinical trials and postmarketing experience with the sustained-release formulation of bupropion in depressed patients and in non-depressed smokers, as well as in clinical trials and postmarketing clinical experience with the immediate-release formulation of bupropion.

Adverse events for which frequencies are provided below occurred in clinical trials with the sustained-release formulation of bupropion. The frequencies rep Adverse events for which frequencies are provided below occurred in clinical trials with the sustained-release formulation of bupropion. The frequencies rep-resent the proportion of patients who experienced at treatment-emergent adverse event on at least one occasion in placebo-controlled studies for depression (n = 987) or smoking cessation (n = 1,013), or patients who experienced an adverse event requiring discontinuation of treatment in an open-label surveillance study with the sustained-release formulation of bupropion (n = 3,100). All treatment-emergent adverse events are included except those listed in Tables 1 through 4, those events listed in other safety-related sections, those adverse events subsumed under COSTART terms that are either overly general or excessively specific so as to be uninformative, those events not reasonably associated with the use of the drug, and those events that were not serious and occurred in fewer than 2 patients. Events of major clinical importance are described in the WARNINGS and PRECAUTIONS sections of the labeling.

Events are further categorized by body system and listed in order of decreasing frequency according to the following definitions of frequency: Frequent adverse events are defined as those occurring in at least 1/100 patients. Infrequent adverse events are those occurring in 1/100 to 1/1,000 patients, while rare events are those occurring in less than 1/1,000 patients.

Adverse events for which frequencies are not provided occurred in clinical trials or postmarketing experience with bupropion. Only those adverse events not previously list-ed for sustained-release bupropion are included. The extent to which these events may be associated with bupropion hydrochloride extended-release tablets (XL) is unknown. Body (General): Infrequent were chills, facial edema, musculoskeletal chest pain, and photosensitivity. Rare was malaise. Also observed were arthralgia, myaling antider given with rash and other symptoms suggestive of delayed hypersensitivity. These symptoms may resemble serum sickness (see PRECAUTIONS).

Cardiovascular: Infrequent were postural hypotension, stroke, tachycardia, and vasodilation. Rare was syncope. Also observed were complete atrioventricular lock, extrasystoles, hypotension, hypertension (in some cases severe, see PRECAUTIONS), myocardial infarction, phlebitis, and pulmonary embolism.

Digestive: Infrequent were abnormal liver function, bruxism, gastric reflux, gingivitis, glossitis, increased salivation, jaundice, mouth ulcers, stomatitis, and nirst. Rare was edema of tongue. Also observed were colitis, esophagitis, gastrointestinal hemorrhage, gum hemorrhage, hepatitis, intestinal perforation, liver dam-

Endocrine: Also observed were hyperolycemia, hypoplycemia, and syndrome of inappropriate antidiuretic hormone.

Hemic and Lymphatic: Infrequent was ecchymosis. Also observed were anemia, leukocytosis, leukopenia, lymphadenopathy, pancytopenia, and thrombocytopeia. Altered PT and/or INR, infrequently associated with hemorrhagic or thrombotic complications, were observed when bupropion was coadministered with warfarin

If any of these are present, make sure you tell your healthcare provider before your child takes an antidepressant Nervous System: Infrequent were abnormal coordination, decreased libido, depersonalization, dysphoria, emotional lability, hostility, hyperkinesia, hypertonia, rpesthesia, suicidal ideation, and vertigo. Rare were amnesia, ataxia, derealization, and hypomania. Also observed were abnormal electroencephalogram (EEG), gression, akinesia, aphasia, coma, delirium, delusions, dysarthria, dyskinesia, dystonia, euphoria, extrapyramidal syndrome, hallucinations, hypokinesia, increased 2. How to Try to Prevent Suicidal Thoughts and Actions Fo try to prevent suicidal thoughts and actions in your child, pay close attention to changes in her or his moods or actions, especially if the changes occur sudde bido, manic reaction, neuralgia, neuropathy, paranoid ideation, restlessness, and unmasking tardive dyskinesia to the important people in your childs life can help by paying attention to changes in her or his modes of actions, especially in the changes occur suder-hanges to look out for are listed in Section 3, on what to watch for. Respiratory: Rare was bronchospasm. Also observed was pneumonia. Skin: Rare was maculopapular rash. Also observed were alopecia, angioedema, exfoliative dermatitis, and hirsutism

DRUG ABUSE AND DEPENDENCE Controlled Substance Class: Bupropion is not a controlled substance.

Humans: Controlled clinical studies of bupropion (immediate-release formulation) conducted in normal volunteers, in subjects with a history of multiple drug abuse, and in depressed patients showed some increase in motor activity and agitation/excitement.

In a population of individuals experienced with drugs of abuse, a single dose of 400 mg of bupropion produced mild amphetamine-like activity as compared to placebo on the Morphine-Benzedrine Subscale of the Addiction Research Center Inventories (ARCI), and a score intermediate between placebo and amphetamine on the Liking Scale of the ARCI. These scales measure general feelings of euphoria and drug desirability.

OVERDOSAGE

agement of bupropion overdoses. No specific antidotes for bupropion are known.

ures, as appropriate.

DOSAGE AND ADMINISTRATION

propriate dose for such treatmen

HOW SUPPLIED

This label may not be the latest approved by FDA.

For current labeling information, please visit https://www.fda.gov/drugsatfda

Metabolic and Nutritional: Infrequent were edema and peripheral edema. Also observed was glycosuria

Musculoskeletal: Infrequent were leg cramps. Also observed were muscle rigidity/fever/rhabdomyolysis and muscle weakness

Special Senses: Infrequent were accommodation abnormality and dry eye. Also observed were deafness, diplopia, increased intraocular pressure, and mydriasis. Urogenital: Infrequent were impotence, polyuria, and prostate disorder. Also observed were abnormal ejaculation, cystitis, dyspareunia, dysuria, gynecomasopause, painful erection, salpingitis, urinary incontinence, urinary retention, and vaginitis.

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

- Animals: Studies in rodents and primates have shown that bupropion exhibits some pharmacologic 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 to assess the positive reinforcing effects of psychoactive drugs, bupropion was self-administered intravenously. In rats, bupropion produced ampheta-mine-like and cocaine-like discriminative stimulus effects in drug discrimination paradigms used to characterize the subjective effects of psychoactive drugs.
- Human Overdose Experience: Overdoses of up to 30 o or more of hupropion have been reported. Seizure was reported in approximately one third of all cases Other serious reactions reported with overdoses of up to 50 g of index of burptopion have been reported. Setzite was reported in apploint and ECG changes such as conduction disturbances or arrhythmias. 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.
- Overdosage Management: Ensure an adequate airway, oxygenation, and ventilation, Monitor cardiac rhythm and vital signs. EEG monitoring is also recommendefforts and the second second and a second and a second and a second second second and a second seco Activated charcoal should be administered. There is no experience with the use of forced diuresis, dialysis, hemoperfusion, or exchange transfusion in the man-
- Due to the dose-related risk of seizures with bupropion hydrochloride extended-release tablets (XL), hospitalization following suspected overdose should be be to the use-related tak or secures with outpropont hydrochonic extense related takes (AL), inspirate taken on the secures and secures with outpropont hydrochonic extense related takes (AL), inspirate taken on the secures and takes of the secure secure and takes of the secure secure secure secures and takes of the secures and takes of the secures and takes of the secure secures and takes of the secure secu
- In managing overdosage, consider the possibility of multiple drug involvement. The physician should consider contacting a poison control center for additional information on the treatment of any overdose. Telephone numbers for certified poison control centers are listed in the *Physicians' Desk Reference* (PDR).
- General Dosing Considerations: It is particularly important to administer buppopion hydrochloride extended-release tablets (XL) in a manner most likely to mini-mize the risk of seizure (see WARNINGS). Gradual escalation in dosage is also important if agitation, motor restlessness, and insomnia, often seen during the ini-tial days of treatment, are to be minimized. If necessary, these effects may be managed by temporary reduction of dose or the short-term administration of an intertal days of treatment, are to be minimized. If necessary, these effects may be managed by temporary reduction of dose or the short-term administration of an inter-mediate to long-acting sedative hypnotic. A sedative hypnotic usually is not required beyond the first week of treatment. Insomnia may also be minimized by avoid-ing bedtime doses. If distressing, untoward effects supervene, dose escalation should be stopped. Bupropion hydrochloride extended-release tablets (XL) should be swallowed whole and not crushed, divided, or chewed. Bupropion hydrochloride extended-release tablets (XL) may be taken without regard to meals.
- be swallowed whole and not crushed, divided, or chewed. Bupropion hydrochloride extended-release tablets (XL) may be taken without regard to meals. Major Depressive Disorder: Initial Treatment: The usual adult target dose for bupropion hydrochloride extended-release tablets (XL) is 300 mg/day, given once laily in the morning. Dosing with bupropion hydrochloride extended-release tablets (XL) should begin at 150 mg/day given as a single daily dose in the morning. If the 150-mg initial dose is adequately tolerated, an increase to the 300-mg/day target dose, given as once daily, may be made as early as day 4 of dosing. There should be an interval of at least 24 hours between successive dose
- Increasing the Dosage Above 300 mg/day: As with other antidepressants, the full antidepressant effect of bupropion hydrochloride extended-release tablets (XL) ay not be evident until 4 weeks of treatment or longer. An increase in dosage to the maximum of 450 mg/day, given as a single dose, may be considered for patients in whom no clinical improvement is noted after several weeks of treatment at 300 mg/day.
- Maintenance Treatment: It is generally agreed that acute episodes of depression require several months or longer of sustained pharmacological therapy beyond esponse to the acute episode. It is unknown whether or not the dose of bupropion hydrochloride extended-release tablets (XL) needed for maintenance treatmen identical to the dose needed to achieve an initial response. Patients should be periodically reassessed to determine the need for maintenance treatment and the
- Switching Patients from Bupropion Hydrochloride Tablets or from Bupropion Hydrochloride Sustained-Release Tablets: When switching patients from buproloride extended-release tablets (XL), give the same total daily dose when possible. Patients who are currently being treated with bupropion hydrochloride belets at 300 mo/day (for example, 100 mg 3 times a day) may be switched to bupcopion hydrochloride extended-release tablets (XL) 300 mg once daily. Patients who are currently being trated with bupprofin hydrochloride use aligned to bupprofin hydrochloride extended-release tablets (XL) storing one daily. Tablets a who are currently being trated with bupprofin hydrochloride extended-release tablets (XL) 300 mg once daily.
- Dosage Adjustment for Patients With Impaired Hepatic Function: Bupropion hydrochloride extended-release tablets (XL) should be used with extreme caution in shall be used with severe hepatic cirrhosis. The does should not exceed a 150 mg every other day in these patients. With gurprojon hydrochloride extended-release tablets (XL) should be used with caution in patients with hepatic impairment (including mild to moderate hepatic cirrhosis) and a reduced frequency and/or dose should be considered in patients with mild to moderate hepatic cirrhosis (see CLINICAL PHARMACOLOGY, WARNINGS, and PRECAUTIONS).
- Dosage Adjustment for Patients With Impaired Renal Function: Bupropion hydrochloride extended-release tablets (XL) should be used with caution in patients and/or dose should be considered (see CLINICAL PHARMACOLOGY and PRECAUTION
- Bupropion hydrochloride extended-release tablets USP (XL) 150 mg, are white to off-white, round, tablets printed with "A101". They are supplied as follow:
 - Bottles of 30 NDC # 10370-101-03
 - Bottles of 60 NDC # 10370-101-06
 - Bottles of 90 NDC # 10370-101-09
 - hydrochloride extended-release tablets USP (XL) 300 mg, are white to off-white, round, tablets printed with "A102", They are supplied as follow: Bottles of 30 NDC # 10370-102-03
 - Bottles of 60 NDC # 10370-102-06
 - Bottles of 90 NDC # 10370-102-09

*The following are registered trademarks of their respective manufacturers: ZYBAN[®], WELLBUTRIN[®], and WELLBUTRIN SR[®]/GlaxoSmithKline.

Medication Guide

Bupropion hydrochloride extended-release tablets USP (XL)

- Read this Medication Guide carefully before you start using bupropion hydrochloride extended-release tablets (XL) and each time you get a refill. There may be new information. This information does not take the place of talking with your doctor about your medical condition or your treatment. If you have any questions about bupropion hydrochloride extended-release tablets (XL), ask your doctor or pharmacis
- IMPORTANT: Be sure to read the section of this Medication Guide beginning with "What is the most important information I should know about bupropion hydrochloride extended-release tablets (XL)?" It contains important information about this medication. It immediately follows the next section called "About Using Antidepressants in Children and Teenagers."
 - About Using Antidepressants in Children and Teenagers
- What is the most important information I should know if my child is being prescribed an antidepressant?
- Parents or guardians need to think about 4 important things when their child is prescribed an antidepressant:
- 1. There is a risk of suicidal thoughts or actions
- 2. How to try to prevent suicidal thoughts or actions in your child
- 8. You should watch for certain signs if your child is taking an antidepressant
- There are benefits and risks when using antidepressan
- Children and teenagers sometimes think about suicide, and many report trying to kill themselves.
- Antidepressants increase suicidal thoughts and actions in some children and temagers. But suicidal thoughts and actions can also be caused by depression, a seri-ous medical condition that is commonly treated with antidepressants. Thinking about killing yourself or trying to kill yourself is called *suicidality* or *being suicidal*. A large study combined the results of 24 different studies of children and teenagers with depression or other illnesses. In these studies, patients took either a place-bo (sugar pill) or an antidepressant for 1 to 4 months. **No one committed suicide** in **these studies**, but some patients became suicidal. On sugar pills, 2 out of every 100 became suicidal. On the antidepressants, 4 out of every 100 patients became suicidal.
- For some children and teenagers, the risks of suicidal actions may be especially high. These include patients with
- Bipolar illness (sometimes called manic-depressive illness

- A family history of bipolar illness
- A personal or family history of attempting suicide

- Whenever an antidepressant is started or its dose is changed, pay close attention to your child.
- After starting an antidepressant, your child should generally see his or her healthcare provider
- Once a week for the first 4 weeks
- Every 2 weeks for the next 4 week
- After taking the antidepressant for 12 weeks After 12 weeks, follow your healthcare provider's advice about how often to come back
- More often if problems or questions arise (see Section 3)
- You should call your child's healthcare provider between visits if needed

3. You Should Watch For Certain Signs if Your Child is Taking an Antidepressa

- Contact your child's healthcare provider right away if your child exhibits any of the following signs for the first time, or they seem worse, or worry you, your child, or your child's teacher
- Thoughts about suicide or dving
- Attempts to commit suicide
- New or worse depression
- New or worse anxiety
- Feeling very agitated or restless
- Panic attacks
- Difficulty sleeping (insomnia
- New or worse irritability
- Acting aggressive, being angry, or violent
- · Acting on dangerous impulses
- An extreme increase in activity and talking
- Other unusual changes in behavior or mood

Never let your child stop taking an antidepressant without first talking to his or her healthcare provider. Stopping an antidepressant suddenly can cause other symptoms. 4. There are Benefits and Risks When Using Antidepressants

Antidepressants are used to treat depression and other illnesses. Depression and other illnesses can lead to suicide. In some children and teenagers, treatment with an antidepressant increases suicidal thinking or actions. It is important to discuss all the risks of treating depression and also the risks of not treating it.

Other side effects can occur with antidepressants (see section below).

For obsessive compulsive disorder in children and teenagers, FDA has approved only fluoxetine (Prozac[®])*, sertraline (Zoloff[®])*, fluoxamine, and clomipramine (Anafranil®)

Your healthcare provider may suggest other antidepressants based on the past experience of your child or other family members.

- 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 doctor before using bupropion hydrochloride extended-release tablets (XL)?" Tell your doctor about all of your medical conditions and all the medicines you take. **Do not take any other medicines while you are using bupropion hydrochloride extended-release tablets (XL)** unless your doctor 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 doctor right away. Do not take bupropion hydrochloride extended-release tablets (XL) again if you have a seizure.

What should I tell my doctor before using bupropion hydrochloride extended-release tablets (XL)?

Invite dupped in the standard release tablets to bupropion hydrochloride extended-release tablets (XL) or mbupropion hydrochloride sustained-release tablets to bupropion hydrochloride sustained-release tablets (XL) 300 mg once daily. Patients and their families should watch out for worsening depression or thoughts of suicide. Also watch out for sudden or severe changes in feelings such as feel-ing anxious, agitated, panicky, irritable, hostile, aggressive, impulsive, severely restless, overly excited and hyperactive, not being ablet to slope, or other unusual changes in behavior. If this happens, especially at the beginning of antidepressant treatment or after a change in dose, call your doctor. 08/06

For additional information see section above entitled "About Using Antidepressants in Children and Teenagers." bupropion hydrochloride extended-release tablet XL) has not been studied in children under the age of 18 and is not approved for use in children and teenac

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

Bupropion hydrochloride extended-release tablets (XL) are a prescription medicine used to treat adults with a certain type of depression called major depressive disor-

Who should not take bupropion hydrochloride extended-release tablets (XL)?

Tell your doctor about your medical conditions. Tell your doctor if you

have an eating disorder, such as anorexia nervosa or bulimia.

have had a heart attack, heart problems, or high blood pressure.

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

• are a diabetic taking insulin or other medicines to control your blood sugar.

have liver problems, especially cirrhosis of the liver.

· Have a tumor in your nervous system (brain or spine).

have kidney problems

have had a head injury.

drink a lot of alcohol.

have had a seizure (convulsion, fit)

· abuse prescription medicines or street drugs.

Do not take bupropion hydrochloride extended-release tablets (XL) if you

have or had a seizure disorder or epilepsy.

- are taking ZYBAN[®] (used to help people stop smoking) or any other medicines that contain bupropion hydrochloride, such as bupropion hydrochloride tablets or bupropion hydrochloride sustained-release tablets. Bupropion is the same active ingredient that is in bupropion hydrochloride extended-
- drink a lot of alcohol and abruptly stop drinking, or use medicines called sedatives (these make you sleepy) or benzodiazepines and you stop using them all of a sudder
- have taken within the last 14 days medicine for depression called a monoamine oxidase inhibitor (MAOI), such as NARDIL[®] (phenetzine sulfate), PARNATE[®] (tranylcypromine sulfate), or MARPLAN[®] (isocarboxazid)*.

• are pregnant or plan to become pregnant. It is not known if bupropion hydrochloride extended-release tablets (XL) can harm your unborn baby.

Tell your doctor about all the medicines you take including prescription and non-prescription medicines vitamins and herbal supplements. Many medicines

Do not chew, cut, or crush bupropion hydrochloride extended-release tablets (XL). You must swallow the tablets whole. Tell your doctor if you cannot

e your chances of having seizures or other serious side effects if you take them while you are using bupropion hydroc

Bupropion hydrochloride extended-release tablets (XL) have not been studied in children under the age of 18 years.

Take bupropion hydrochloride extended-release tablets (XL) exactly as prescribed by your doctor.

Take your doses of bupropion hydrochloride extended-release tablets (XL) at least 24 hours apart.

Take bupropion hydrochloride extended-release tablets (XL) at the same time each day.

You may take bupropion hydrochloride extended-release tablets (XL) with or without food.

are breastleeding. Bupropion hydrochloride extended-release tablets (XL) passes through your milk. It is not known if bupropion hydrochloride extended-release tablets (XL) can harm your baby.

 have or had an eating disorder such as anorexia nervosa or bulimia. • 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 leaflet for a complete list of ingredients in bupropion hydrochloride extended-release tablets (XL). If you miss a dose, do not take an extra tablet to make up for the dose you forgot. Wait and take your pext tablet at the regular time. This is yery important much bupropion hydrochloride extended-release tablets (XL) can increase your chance of having a se

 If you take too much bupropion hydrochloride extended-release tablets (XL), or overdose, call your local emergency room or poison control center right away. The bupropion hydrochloride extended-release tablet (XL) is covered by a shell that slowly releases the medicine inside your body. You may notice some-thing in your stool that looks like a tablet. This is normal. This is the empty shell passing from your body.

Do not take any other medicines while using bupropion hydrochloride extended-release tablets (XL) unless your doctor has told you it is okay.

If you are taking bupropion hydrochloride extended-release tablets (XL) for the treatment of major depressive disorder, it may take several weeks for you to feel that bupropion hydrochloride extended-release tablets (XL) is working. Once you feel better, it is important to keep taking bupropion hydrochloride extended-release tablets (XL) is working. Once you feel bupropion hydrochloride extended-release tablets (XL) is working. Once you feel bupropion hydrochloride extended-release tablets (XL) is working.

• Do not change your dose or stop taking bupropion hydrochloride extended-release tablets (XL) without talking with your doctor first.

What should I avoid while taking bupropion hydrochloride extended-release tablets (XL)? Do not drink a lot of alcohol while taking bupropion hydrochloride extended-release tablets (XL).

working for you.

of having seizures

stop smoking.

Tell your doctor right away about any side effects that bother you.

release tablets (XL) in its tightly closed bottle.

Active ingredient: hupropion hydrochloride

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nchen Pharmaceuticals. Inc.

If you usually drink a lot of alcohol, talk with your doctor before suddenly stopping. If you suddenly stop drinking alcohol, you may increase your chance

• Do not drive a car or use heavy machinery until you know how bupropion hydrochloride extended-release tablets (XL) affects you. Bupropion hydrochloride extended-release tablets (XL) can impair your ability to perform these tasks

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

Seizures. Some patients get seizures while taking bupropion hydrochloride extended-release tablets (XL). If you have a seizure while taking bupropion hydrochloride extended-release tablets (XL), stop taking the tablets and call your doctor right away. Do not take bupropion hydrochloride extended-release tablets (XL) again if you have a seizure.

Hypertension (high blood pressure). Some patients get high blood pressure, sometimes severe, while taking bupropion hydrochloride extended-release
tablets (XL). The chance of high blood pressure may be increased if you also use nicotine replacement therapy (for example, a nicotine patch) to help you

Severe alleggic reactions. Stop buppropion hydrochloride extended-release tablets (XL) and call your doctor 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 pair signs of a serious allergic reaction.

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 doctor.

Common side effects reported in studies of major depressive disorder include weight loss, loss of appetite, dry mouth, skin rash, sweating, ringing in the ears, shak-iness, stomach pain, agitation, anxiety, dizziness, trouble sleeping, muscle pain, nausea, fast heartbeat, sore throat, and urinating more often. If you have nausea, take your medicine with food. If you have trouble sleeping, do not take your medicine too close to bedtime.

ese are not all the side effects of bupropion hydrochloride extended-release tablets (XL). For a complete list, ask your doctor or pharmacist How should I store bupropion hydrochloride extended-release tablets (XL)?

· Store bupropion hydrochloride extended-release tablets (XL) at room temperature. Store out of direct sunlight. Keep bupropion hydrochloride extended

Bupropion hydrochloride extended-release tablets (XL) may have an odor.

General Information about 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. Keep bupropion hydrochloride extended-release tablets (XL) out of the reach of children.

This Medication Guide summarizes important information about bupropion hydrochloride extended-release tablets (XL). For more information, talk with your doc-tor. You can ask your doctor or pharmacist for information about bupropion hydrochloride extended-release tablets (XL) that is written for health professionals. What are the ingredients in bupropion hydrochloride extended-release tablets (XL)?

Inactive ingredients: dehydrated alcohol, ethylcellulose, hydrochloric acid, hydroxypropylcellulose, methacrylic acid copolymer, povidone, silicon dioxide, hydrogenated vegetable oil and ethyl alcohol. The tablets are printed with edible black ink.

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