

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use BUPROPION HYDROCHLORIDE EXTENDED-RELEASE TABLETS (SR) safely and effectively. See full prescribing information for BUPROPION HYDROCHLORIDE EXTENDED-RELEASE TABLETS (SR). BUPROPION HYDROCHLORIDE extended-release tablets (SR), for oral use

Initial U.S. Approval: 1985

WARNING: SUICIDAL THOUGHTS AND BEHAVIORS See full prescribing information for complete boxed warning. Increased risk of suicidal thinking and behavior in children, adolescents and young adults taking antidepressants. (5.1)

Monitor for worsening and emergence of suicidal thoughts and behaviors. (5.1)

.....INDICATIONS AND USAGE... Bupropion hydrochloride extended-release tablets (SR) are an aminoketone antidepressant, indicated for the treatment of major depressive disorder (MDD). (1)DOSAGE AND ADMINISTRATION...

Starting dose: 150 mg/day. (2-1)

General: Increase dose gradually to reduce seizure risk. (2.1, 5.3)

- After 3 days, may increase the dose to 300 mg/day, given as 150 mg twice daily at an interval of at least 8 hours. (2.1)
- Usual target dose: 300 mg/day as 150 mg twice daily. (2.1)
- Maximum dose: 400 mg/day, given as 200 mg twice daily, for patients not responding to 300 mg/day. (2.1 Periodically reassess the dose and need for maintenance treatment, (2.1)
- Moderate to severe hepatic impairment: 100 mg daily or 150 mg every other day. (2.2, 8.7) Mild hepatic impairment: Consider reducing the dose and/or frequency of dosing. (2.2, 8.7)
- Renal impairment: Consider reducing the dose and/or frequency. (2.3, 8.6)

- Tablets: 100 mg, 150 mg, 200 mg. (3)
- Saizura disordar (A 5 3)
- Current or prior diagnosis of bulimia or anorexia nervosa. (4, 5.3)
- Abrupt discontinuation of alcohol, benzodiazepines, barbiturates, antiepileptic drugs, (4, 5,3) Anonpamic Dividese Inhibitors (MADIs): Do not use MADIs intended to trapping to dogs (+r, sci) Monoamic Dividese Inhibitors (MADIs): Do not use MADIs intended to trap spchiatric disorders with bupropion hydrochloride extended-release tablets (SR) or within 14 days of stopping treatment with bupropion hydrochloride extended-release tablets (SR). Do not use bupropion hydrochloride extended-release tablets (SR) within 14 days of stopping an MAOI intended to treat psychiatric disorders. In addition, do not start bupropion hydrochloride extended-release tablets (SR) in a patient who is being treated with linezolid or intravenous methylene blue. (4, 7.6)

....DOSAGE FORMS AND STRENGTHS...

--- CONTRAINDICATIONS -

Known hypersensitivity to bupropion or other ingredients of bupropion hydrochloride extended-release tablets (SR). (4, 5.8)

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WARNING: SUICIDAL THOUGHTS AND BEHAVIORS

SUICIDALITY AND ANTIDEPRESSANT DRUGS nts increased the risk of suicidal thoughts and behavior in children, adolescents, and young adults in short-term trials

- These trials did not show an increase in the risk of suicidal thoughts and behavior with antidepressant use in subjects over age 24; ther was a reduction in risk with antidepressant use in subjects aged 65 and older (see Warnings and Precautions (5.1)). In patients of all ages who are started on antidepressant therapy, monitor closely for worsening, and for emergence of suicidal thoughts
- and behaviors. Advise families and caregivers of the need for close observation and communication with the prescriber *(see Warnings* and Precautions (5.1)].

- ---WARNINGS AND PRECAUTIONS--Neuropsychiatric adverse events during smoking cessation: Postmarketing reports of serious or clinically significant neuropsychiatric adverse events have included changes in mood (including depression and mania), psychosis, hallucinations, paranoia, delusions, homicidal ideation, aggression hostility, agitation, anxiety, and panic, as well as suicidal ideation, suicide attempt, and completed suicide. Observe patients attempting to qu smoking with bupropion for the occurrence of such symptoms and instruct them to discontinue bupropion and contact a healthcare provider if they
- xperience such adverse events. (5-2) Seizure risk: The risk is dose-related. Can minimize risk by gradually increasing the dose and limiting daily dose to 400 mg. Discontinue if seizure occurs. (4, 5.3, 7.3)
- . ion: Bupropion hydrochloride extended-release tablets (SR) can increase blood pressure. Monitor blood pressure before initiating treatmer and periodically during treatment. (5.4)
- Activation of mania/hynomania: Screen natients for binolar disorder and monitor for these symptoms (5.5)
- Psychosis and other neuropsychiatric reactions: Instruct patients to contact a healthcare professional if such reactions occur. (5.6)
- Angle closure glaucoma: Angle closure glaucoma has occurred in patients with untreated anatomically narrow angles treated with antidepressants. (5.7) ······ADVERSE REACTIONS·····

Most common adverse reactions (incidence \geq 5% and \geq 2% more than placebo rate) are: headache, dry mouth, nausea, insomnia, dizziness, pharyngitis, constipation, agitation, anxiety, abdominal pain, tinnitus, tremor, palpitation, myalgia, sweating, rash, and anorexia. (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Annora Pharma Private Limited at 1-866-495-1995 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

- --- DRUG INTERACTIONS- CYP2B6 inducers: Dose increase may be necessary if coadministered with CYP2B6 inducers (e.g., ritonavir, lopinavir, efavirenz, carbamazepine, phenobarbital, and phenytoini based on clinical response, but should not exceed the maximum recommended dose. (7.1) Drugs metabolized by CYP2D6: Bupropion inhibits CYP2D6 and can increase concentrations of: antidepressants (e.g., venlafaxine, nortriptyline,
- brugs interactive of the 20- boppoint matrix of 12 bor and each modese concentrations of a multiplessant (e.g., reinfarance, intropyme, imigramine, designamine, paroxitine, fluxestine, sertraline), antipsychotics (e.g., alaoperido, risperidone, thioridazine), beta-blockers (e.g., metoprolol), and Type 1C antiarrhythmics (e.g., propafenone, flecainide). Consider dose reduction when using with bupropion. (7.2) Digoxin: May decrease plasma digoxin levels. Monitor digoxin levels. (7.2)
- rugs that lower seizure threshold: Dose bupropion hydrochloride extended-release tablets (SR) with caution. (5.3, 7.3)
- Dopaminergic drugs (levodopa and amantadine): CNS toxicity can occur when used concomitantly with bupropion hydrochloride extended release tablets (SR), (7.4) MAOIs: Increased risk of hypertensive reactions can occur when used concomitantly with bupropion hydrochloride extended-release tablets (SR). (7.6)
- Drug-laboratory test interactions: Bupropion hydrochloride extended-release tablets (SR) can cause false-positive urine test results for amphetamines, (7,7)

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- 7.4 Dopaminergic Drugs (Levodopa and Amantadine)
- Use with Alcohol
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tablets (SR) and consult a healthcare provider if they develop an allergic or anaphylactoid/anaphylactic reaction (e.g., skin rash, pruritus, hives, chest pain, edema. and shortness of breath) during tre

- There are reports of arthralgia, myalgia, fever with rash, and other serum sickness-like symptoms suggestive of delayed hypersensitivit
- ADVERSE REACTIONS
- ollowing adverse reactions are discussed in greater detail in other sections of the labeling: Suicidal thoughts and behaviors in adolescents and young adults (see Boxed Warning, Warnings and Precautions (5.1))
- Neuropsychiatric symptoms and suicide risk in smoking cessation treatment *(see Warnings and Precautions (5.2)*
- Seizure (see Warnings and Precautions (5.3))
- Hypertension [see Warnings and Precautions (5.4)] Activation of mania or hypomania (see Warnings an
- Antidepressants are medicines used to treat depression and other illnesses. It is

treatment.

actions.

family member?

when the dose is changed.

behavior, thoughts, or feelings.

thoughts about suicide or dying

attempts to commit suicide

new or worse depression

 new or worse anxiety feeling very agitated or restless

• panic attacks

Revised: 06/2023

MEDICATION GUIDE

Bupropion Hydrochloride (bue proe' pee on hye" droe klor' ide) **Extended-Release Tablets (SR)**

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

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

This section of the Medication Guide is only about the risk of suicidal thoughts and actions with antidepressant medicines.

What is the most important information I should know about antidepressant medicines, depression and other serious mental illnesses, and suicidal thoughts or actions?

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

2. Depression or other serious mental illnesses are the most important causes of suicidal thoughts and actions. Some people may have a particularly high risk of

having suicidal thoughts or actions. These include people who have (or have a family

history of) bipolar illness (also called manic-depressive illness) or suicidal thoughts or

3. How can I watch for and try to prevent suicidal thoughts and actions in myself or a

Pay close attention to any changes, especially sudden changes, in mood, behaviors,

Call your healthcare provider right away to report new or sudden changes in mood,

Keep all follow-up visits with your healthcare provider as scheduled. Call the healthcare

Call your healthcare provider right away if you or your family member has any of the

trouble sleeping (insomnia)

new or worse irritability

• acting on dangerous impulses

acting aggressive, being angry, or violent

• an extreme increase in activity and talking (mania)

• other unusual changes in behavior or mood

provider between visits as needed, especially if you have concerns about symptoms.

following symptoms, especially if they are new, worse, or worry you:

What else do I need to know about antidepressant medicines?

thoughts, or feelings. This is very important when an antidepressant medicine is started or

some children, teenagers, or young adults within the first few months of

INDICATIONS AND USAGE

Bupropion hydrochloride extended-release tablets (SR) are indicated for the treatment of major depressive disorder (MDD), as defined by the Diagnostic and Statistical Manual (DSM). The efficacy of bupropion in the treatment of a major depressive episode was established in two 4-week controlled inpatient trials and one 6-week controlled

outpatient trial of adult subjects with MDD /see Clinical Studies (14)]. The efficacy of bupropion hydrochloride extended-release tablets (SR) in maintaining an antidepressant response for up to 44 weeks following 8 weeks of

nstrated in a placebo-controlled trial *(see Clinical Studies (14)*)

2 DOSAGE AND ADMINISTRATION

2.1 General Instructions for Use

To minimize the risk of seizure, increase the dose gradually [see Warnings and Precautions (5.3)]. Bupropion hydrochloride extended-release tablets (SR) should be swallowed whole and not crushed, divided, or chewed, Bupropion hydrochloride extended-release tablets (SR) may be taken with or without food. The usual adult target dose for bupropion hydrochloride extended-release (SR) tablet is 300 mg/day, given as 150 mg twice daily. Initiate dosing with 150 mg/day given as a single daily dose in the morning. After 3 days of dosing, the dose may be increased to the 300 mg/day target dose, given as 150 mg twice daily. There should be an interval of at least 8 hours between successive doses. A maximum of 400 mg/day, given as 200 mg twice daily, may t considered for patients in whom no clinical improvement is noted after several weeks of treatment at 300 mg/day. To avoid high peak concentrations of bupropion and/or its metabolites, do not exceed 200 mg in any single dose.

It is generally agreed that acute episodes of depression require several months or longer of antidepressant drug treatment beyond the response in the acute sode. It is unknown whether the dose of bupropion hydrochloride extended release tablets (SR) needed for mai that provided an initial response. Periodically reassess the need for maintenance treatment and the appropriate dose for such treatment.

2.2 Dose Adjustment in Patients with Hepatic Impairment

moderate to severe hepatic impairment (Child-Pugh score: 7 to 15), the maximum dose of bupropion hydrochloride extended-release tablets (SR) is 100 mg/day or 150 mg every other day. In patients with mild hepatic impairment (Child-Pugh score: 5 to 6), consider reducing the dose and/or frequency of dosing [see Use in Specific Populations (8.7), Clinical Pharmacology (12.3)].

2.3 Dose Adjustment in Patients with Renal Impairment

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

2.4 Switching a Patient to or from a Monoamine Oxidase Inhibitor (MAOI) Antidepressant

At least 14 days should elapse between discontinuation of an MAOI intended to treat depression and initiation of therapy with bupropion hydrochloride extended-release tablets (SR). Conversely, at least 14 days should be allowed after stopping bupropion hydrochloride extended-release tablets (SR) before starting an MAOI antidepressant [see Contraindications (4), Drug Interactions (7.6)].

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

2.9 Ose of buppenent protocolorities retrievables (SR) in a patient who is being treated with a reversible MAOI such as linezolid or intrave methylene blue. Drug interactions can increase the risk of hypertensive reactions. In a patient who requires more urgent treatment of a psychiatric condi non-pharmacological interventions, including hospitalization, should be considered (see Contraindications (4), Drug Interactions (7.6)).

In some cases, a patient already receiving therapy with bupropion hydrochloride extended-release tablets (SR) may require urgent treatment with linezolid or intravenous methylene blue. If acceptable alternatives to linezolid or intravenous methylene blue treatment are not available and the potential benefits of linezolid or intravenous methylene blue treatment are judged to outweigh the risks of hypertensive reactions in a particular patient, bupropion hydrochloride xtended-release tablets (SR) should be stopped promptly, and linezolid or intravenous methylene blue can be administered. The patient should be monitored extended release tablets (SR) may be resumed 24 hours after the last dose of linezolid or intravenous methylene blue.

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

- DOSAGE FORMS AND STRENGTHS
- 100 mg Red colored, round biconvex bevel edged film coated tablets imprinted with 'V1 48' on one side and plain on other side
- 150 mg Green colored, round biconvex bevel edged film coated tablets imprinted with 'V1 49' on one side and plain on other side 200 mg - Yellow colored, round biconvex bevel edged film coated tablets imprinted with 'V1 50' on one side and plain on other side.
- CONTRAINDICATIONS
- Burpopion hydrochloride extended-release tablets (SR) are contraindicated in patients with a seizure disorder. Bupropion hydrochloride extended-release tablets (SR) are contraindicated in patients with a current or prior diagnosis of bulimia or anorexia nervosa as a higher incidence of seizures was observed in such patients treated with the immediate-release formulation of bupropion (see Warnings and
- Bupropion hydrochloride extended release tablets (SR) are contraindicated in patients undergoing abrupt discontinuation of alcohol, benzodiazepines, barbiturates, and antiepileptic drugs (see Warnings and Precautions (5.3), Drug Interactions (7.3)). The use of MADIs (intended to treat psychiatric disorders) concomitantly with bupropion hydrochloride extended-re 14 days of discontinuing treatment with bupropion hydrochloride extended release tablets (SR) are contraindicated. There is an increased risk of
- sive reactions when bupropion hydrochloride extended release tablets (SR) are used concomitantly with MAOIs. The use of bupropion hydrochloride extended-release tablets (SR) within 14 days of discontinuing treatment with an MAOI is also contraindicated. Starting bupropior hydrochloride extended-release tablets (SR) in a patient treated with reversible MAOIs such as linezolid or intravenous methylene blue is contraindicated [see Dosage and Administration (2.4, 2.5), Warnings and Precautions (5.4), Drug Interactions (7.6)] Bupropion hydrochloride extended-release tablets (SR) are contraindicated in patients with known hypersensitivity to bupropion or other ingredients
- of bupropion hydrochloride extended-release tablets (SR) Anaphylactoid/anaphylactic reactions and Stevens-Johnson syr [see Warnings and Precautions (5.8)].

5 WARNINGS AND PRECAUTIONS

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

Patients with MDD, both adult and pediatric, may experience worsening of their depression and/or the emergence of suicidal ideation and behavior (suicidality) or unusual changes in behavior, whether or not they are taking antidepressant medications, and this risk may persist until significant remission occurs. Suicide is a known risk of depression and certain other psychiatric disorders, and these disorders themselves are the strongest predictors of suicide. There has been a long-standing concern that antidepressants may have a role in inducing worsening of depression and the emergence of suicidality in certain patients during the early phases of treatment.

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

The pooled analyses of placebo-controlled trials in children and adolescents with MDD, obsessive compulsive disorder (OCD), or other psychiatric d included a total of 24 short-term trials of 9 antidepressant drugs in over 4,400 subjects. The pooled analyses of placebo-controlled trials in adults with MDD or other specialized in the management of an energy of 255 short-term trials (median duration of 2 months) of 11 antidepressant drugs in over 77,000 subjects. There was considerable variation in risk of suicidality among drugs, but a tendency toward an increase in the younger subjects for almost all drugs studied. There were differences in absolute risk of suicidality across the different indications, with the highest incidence in MDD. The risk differences (drug vs placebo), however, were relatively stable within age strata and across indications. These risk differences (drug-placebo difference in the number of ca suicidality per 1,000 subjects treated) are provided in Table 1.

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

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

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

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

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

The following symptoms, anxiety, agitation, panic attacks, insomnia, irritability, hostility, aggressiveness, impulsivity, akathisia (psycho 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 poppsychiatric. Although a causal link between the emergence of such symptoms and either the worse of depression and/or the emergence of suicidal impulses has not been established, there is concern that such symptoms may represent precursors to emerging suicidality.

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

Families and caregivers of patients being treated with antidepressants for MDD or other indications, both psychiatric and nonpsychiatric should be alerted about the need to monitor patients for the emergence of agitation, irritability, unusual changes in behavior, and the other symptoms described above, as well as the emergence of suicidality, and to report such symptoms immediately to healthcare providers. Such toring should include daily observation by families and caregivers. Prescriptions for bupropion hydrochloride extended-release tablets (SR) should be written for the smallest quantity of tablets consistent with good patient manage ent, in order to reduce the risk of overdose

5.2 Neuropsychiatric Adverse Events and Suicide Risk in Smoking Cessation Treatment

Bupropion hydrochloride extended-release tablets (SR) are not approved for smoking cessation treatment; however, it contains the same active ingredient as the smoking cessation medication ZYBAN. Serious neuropsychiatric adverse events have been reported in patients taking bupropion for smoking cessation These postmarketing reports have included changes in mood (including depression and mania), psychosis, hallucinations, paranoia, delusions, homicida ideation, aggression, hostility, agitation, anxiety, and panic, as well as suicidal ideation, suicide attempt, and completed suicide (see Adverse Reactions (6 2)/ So e patients who stopped smoking may have been experiencing symptoms of nicotine withdrawal, including depressed mood. Depression, rarely including suicidal ideation, has been reported in smokers undergoing a smoking cessation attempt without medication. However, some of these adverse

- Psychosis and other neuropsychiatric reactions /see Warnings and Precautions (5.6)/
- Angle-closure glaucoma (see Warnings and Precautions (5.7
- Hypersensitivity reactions [see Warnings and Precautions (5.8)]

6.1 Clinical Trials Experience Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly

compared with rates in the clinical trials of another drug and may not reflect the rates observed in clinical practice Adverse Reactions Leading to Discontinuation of Treatment

In placebo controlled clinical trials, 4%, 9%, and 11% of the placebo, 300 mg/day, and 400 mg/day groups, respectively, discontinued treatment due to dverse reactions. The specific adverse reactions leading to discontinuation in at least 1% of the 300 mg/day or 400 mg/day groups and at a rate at least twice the placebo rate are listed in Table 2.

Table 2. Treatment Discor ions Due to Adverse Reactions in Placebo-Controlled Trials

Adverse Reaction	Placebo (n = 385)	Bupropion hydrochloride extended-release tablets (SR) 300 mg/day (n = 376)	Bupropion hydrochloride extended-release tablets (SR) 400 mg/day (n = 114)
Rash	0.0%	2.4%	0.9%
Nausea	0.3%	0.8%	1.8%
Agitation	0.3%	0.3%	1.8%
Migraine	0.3%	0.0%	1.8%

Commonly Observed Adverse Reactions Adverse reactions from Table 3 occurring in at least 5% of subjects treated with bupropion hydrochloride extended-release tablets (SR) and at a rate at leas twice the placebo rate are listed below for the 300 and 400 mg/day dose groups.

Bupropion hydrochloride extended-release tablets (SR) 300 mg/day: Anorexia, dry mouth, rash, sweating, tinnitus, and tremo

Bupropion hydrochloride extended-release tablets (SR) 400 mg/day: Abdominal pain, agitation, anxiety, dizziness, dry mouth, insomnia, myalgia, nausea palpitation, pharyngitis, sweating, tinnitus, and urinary frequency.

Adverse reactions reported in placebo-controlled trials are presented in Table 3. Reported adverse reactions were classified using a COSTART-based Dictionary

Table 3. Adverse Reactions Reported by at Least 1% of Subjects and at a Greater Frequency than Placebo in Controlled Clinical Trials

Body System/ Adverse Reaction	Bupropion hydrochloride extended-release tablets (SR) 200 mg/day	Bupropion hydrochloride extended-release tablets (SR)	Placebo	
Adverse Reaction	300 mg/day (n = 376)	400 mg/day (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%	-	
Cardiovascular				
Palpitation	2%	6%	2%	
Flushing	1%	4%	-	
Migraine	1%	4%	1%	
Hot flashes	1%	3%	1%	
Digestive	170	070	1 /0	
Dry mouth	17%	24%	7%	
Nausea	13%	18%	8%	
Constipation	10%	5%	7%	
Diarrhea	5%	7%	7% 6%	
Anorexia	5%	3%	2%	
Anorexia Vomiting	4%	3%	2%	
Dysphagia	0%	2%	2%	
Musculoskeletal	0%	2.76	U%	
	0%	0%	01/	
Myalgia	2%	6%	3%	
Arthralgia	1%	4%	1%	
Arthritis	0%	2%	0%	
Twitch	1%	2%	-	
Nervous system	440	102	00/	
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%	
Taste perversion	2%	4%	-	
Blurred vision or diplopia	3%	2%	2%	
Urogenital	0,8	- /v	- /•	
Urinary frequency	2%	5%	2%	
Urinary urgency	-	2%	0%	
Vaginal hemorrhage*	0%	2%	-	
Urinary tract infection	1%	0%	_	

* Incidence based on the number of female subjects.

- Hyphen denotes adverse events occurring in greater than 0 but less than 0.5% of subjects

Other Adverse Reactions Observed during the Clinical Development of Bupropion

en reported in clinical trials with the sustained-release formulation of bu in depressed subjects and in nondepressed smokers, as well as in clinical trials with the immediate-release formulation of bupropion.

Adverse reaction frequencies represent the proportion of subjects who experienced a treatment-emergent adverse reaction on at least one occasion in placebo-controlled trials for depression (n = 987) or smoking cessation (n = 1,013), or subjects who experienced an adverse reaction requiring proceeded in the presence of the presence of the structure of the structu subsumed under COSTART terms that are either overly general or excessively specific so as to be uninformative, those not reasonably associated with the use of the drug, and those that were not serious and occurred in fewer than 2 subjects.

Adverse reactions are further categorized by body system and listed in order of decreasing frequency according to the following definitions of frequency Frequent adverse reactions are defined as those occurring in at least 1/100 subjects. Infrequent adverse reactions are those occurring in 1/100 to 1/1,001 subjects, while rare events are those occurring in less than 1/1,000 subjects.

Bodv (General): Infrequent were chills, facial edema, and photosensitivity. Rare was malaise

Cardiovascular: Infrequent were postural hypotension, stroke, tachycardia, and vasodilation. Rare were syncope and myocardial infarction. Digestive: Infrequent were abnormal liver function, bruxism, gastric reflux, gingivitis, increased salivation, jaundice, mouth ulcers, stomatitis, and thirst

Rare was edema of tongue.

Hemic and Lymphatic: Infrequent was ecchymosis Metabolic and Nutritional: Infrequent were edema and peripheral edema

- Musculoskeletal: Infrequent were leg cramps
- Nervous System: Infrequent were abnormal coordination, decreased libido, depersonalization, dysphoria, emotional lability, hostility, hyperkinesi hypertonia, hypesthesia, suicidal ideation, and vertigo. Rare were amnesia, ataxia, derealization, and hypomania. Respiratory: Rare was bronchospasm.
- Special Senses: Infrequent were accommodation abnormality and dry eye
- Urogenital: Infrequent were impotence, polyuria, and prostate disorde
- Changes in Body Weight

important to discuss all the risks of treating depression and also the risks of not treating it Patients and their families or other caregivers should discuss all treatment choices with the healthcare provider, not just the use of antidepressants.

Never stop an antidepressant medicine without first talking to a healthcare

provider. Stopping an antidepressant medicine suddenly can cause other symptoms.

- Antidepressant medicines have other side effects. Talk to the healthcare provider about the side effects of the medicine prescribed for you or your family member.
- Antidepressant medicines can interact with other medicines. Know all of the medicines that you or your family member takes. Keep a list of all medicines to show the healthcare provider. Do not start new medicines without first checking with your healthcare provider.

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

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

This section of the Medication Guide is only about the risk of changes in thinking and behavior, depression and suicidal thoughts or actions with drugs used to quit smoking. Although bupropion hydrochloride extended-release (SR) tablet is not a treatment for quitting smoking, it contains the same active ingredient (bupropion hydrochloride) as ZYBAN which is used to help patients quit smoking.

Talk to your healthcare provider or your family member's healthcare provider about:

- all risks and benefits of quit-smoking medicines
- all treatment choices for guitting smoking

When you try to quit smoking, with or without bupropion you may have symptoms that may be due to nicotine withdrawal, including:

- urge to smoke frustration
 - decreased heart rate • ander

restlessness

trouble sleeping

depressed mood

- feeling anxious • increased appetite
- irritability

difficulty concentrating
weight gain

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

Some people have had serious side effect while taking bupropion to help them quit smoking, including: New or worse mental health problems, such as changes in behavior or thinking, aggression, hostility, agitation, depression, or suicidal thoughts or actions. Some people had these symptoms when they began taking bupropion, and others developed them after several weeks of treatment, or after stopping bupropion. These symptoms happened more often in people who had a history of mental health problems before taking bupropion than in people without a history of mental health problems.

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

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

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

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

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

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

Manic episodes. Some people may have periods of mania while taking bupropion

events occurred in natients taking ed to smok

Neuropsychiatric adverse events occurred in patients without and with pre-existing psychiatric disease; some patients experienced worsening of their psychiatric illnesses. Observe patients or the occurrence of neuropsychiatric adverse vents. Advise patients and acregivers that the patient should stop taking bupropion hydrochloride extended-release tablets (SR) and contact a healthcare provider immediately if agitation, depressed mood, or changes in behavior or thinking that are not typical for the patient are observed, or if the patient develops suicidal ideation or suicidal behavior. In many postmarketing solution of symptoms after discontinuation of bupropion was reported. However, the symptoms persisted in some cases; therefore, ong monitoring and supportive care should be provided until symptoms resolve.

5.3 Seizure

Bupropion hydrochloride extended-release tablets (SR) can cause seizure. The risk of seizure is dose-related. The dose should not exceed 400 mg/day. Increase the dose gradually. Discontinue bupropion hydrochloride extended-release tablets (SR) and do not restart treatment if the patient experiences a

The risk of seizures is also related to patient factors, clinical situations, and concomitant medications that lower the seizure threshold. Consider these risks The task of secures is also reacted to partient rackors, annual structurins, and unnormal interactions into the secure difference interactions, and unnormal interactions into the secure difference interactions and the secure secure interactions and the secure secure se benzodiazepines, barbiturates, and antiepileptic drugs /see Contraindications (4). Drug Interactions (7.3)/. The following conditions can also increase the risk of seizure: severe head injury; arteriovenous malformation; CNS tumor or CNS infection; severe stroke; concomitant use of other medications that lo the seizure threshold (e.g., other bupropion products, antipsychotics, tricyclic antidepressants, theophylline, and systemic corticosteroids); metabolic disorders (e.g., hypoglycemia, hyponatremia, severe hepatic impairment, and hypoxia); use of illicit drugs (e.g., cocaine); or abuse or misuse of prescription drugs such as CNS stimulants. Additional predisposing conditions include diabetes mellitus treated with oral hypoglycemic drugs or insulin; use of anorectic drugs; and excessive use of alcohol, benzodiazepines, sedative/hypnotics, or opiates.

Incidence of Seizure with Bupropion Use

When humanian hydrochloride extended release (SB) tablet is dosed up to 300 mg/day, the incidence of seizure is approximately 0.1% (1/1.000) and increases to approximately 0.4% (4/1,000) at the maximum recommended dose of 400 mg/day.

The risk of seizure can be reduced if the dose of bupropion hydrochloride extended-release tablets (SR) does not exceed 400 mg/day, given as 200 mg twice daily, and the titration rate is gradual.

5.4 Hypertension

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

Data from a comparative trial of the sustained-release formulation of bupropion HCI, nicotine transdermal system (NTS), the combination of sustained release bupropion plus NTS, and placebo as an aid to smoking cessation suggest a higher incidence of treatment-emergent hypertension in patients treated with the combination of sustained-release bupropion and NTS. In this trial, 6.1% of subjects treated with the combination of sustained-release bupropio and NTS had treatment-energient hypertension compared with 2.5%, 1.6%, and 3.1% of subjects treated with sustained-release buppopulation of the subjects in the communication of sustained release buppopulation of the subjects in the subject is the subject in the combination of sustained release buppopulation of the subject is the subje sustained release bunnonion and NTS and 1 subject (0.4%) treated with NTS had study medication discontinued due to hyperty sion compared with none of the subjects treated with sustained release bupropion or placebo. Monitoring of blood pressure is recommended in patients who receive the combination o bupropion and nicotine replacement.

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

5.5 Activation of Mania/Hypomania

Antidepressant treatment can precipitate a manic, mixed, or hypomanic manic episode. The risk appears to be increased in patients with bipolar disorder or who have risk factors for bipolar disorder. Prior to initiating bupropion hydrochloride extended release tablets (SR), screen patients for a history of bipolar disorder and the presence of risk factors for bipolar disorder (e.g., family history of bipolar disorder, suicide, or depression). Bupropion hydrochloride extended-release tablets (SR) are not approved for use in treating bipolar depression

5.6 Psychosis and Other Neuropsychiatric Reactions

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

5.7 Angle-Closure Glaucoma

he publicary dilation that occurs following use of many antidepressant drugs including bupropion hydrochloride extended-release tablets (SR) may trigger an angle-closure attack in a patient with anatomically narrow angles who does not have a patent iridectomy

5.8 Hypersensitivity Reactions

Anaphylactoid/anaphylactic reactions have occurred during clinical trials with bupropion. Reactions have been characterized by pruritus, urticaria, angioedema, and dyspnea requiring medical treatment. In addition, there have been rare, spontaneous postmarketing reports of erythema multiforme, ome, and anaphylactic shock associated with bupropion. Instruct patients to discontinue bupropion hydroch

In placebo-controlled trials, subjects experienced weight gain or weight loss as shown in Table Table 4 Insidence of Weight Coin and Weight La / > E lhe \in Diesehe Centrelled Triel

I able 4. Incidence of Weight Gain and Weight Loss (\geq 5 lbs.) in Placebo-Controlled I rials					
Bupropion hydrochloride extended-release tablets (SR) 300 mg/day (n = 339)		Bupropion hydrochloride extended-release tablets (SR) 400 mg/day (n = 112)	Placebo (n = 347)		
Gained >5 lbs.	3%	2%	6%		
Lost >5 lbs.	14%	19%	4%		

In clinical trials conducted with the immediate-release formulation of bupropion, 35% of subjects receiving tricyclic antidepressants gained weight, compared with 9% of subjects treated with the immediate-release formulation of bupropion. If weight loss is a major presenting sign of a patient's depressive illness, the anorectic and/or weight-reducing potential of bupropion hydrochloride extended-release tablets (SR) should be

6.2 Postmarketing Experience

- The following adverse reactions have been identified during postapproval use of bupropion hydrochloride extended release tablets (SR) and are not described elsewhere in the label. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure.
- Body (Ge<u>neral)</u> Arthralgia, myalgia, and fever with rash and other symptoms suggestive of delayed hypersensitivity. These symptoms may resemble serum sickness /see
- Warnings and Precautions (5.8)
- Cardiovascular Complete atrioventricular block, extrasystoles, hypotension, hypertension (in some cases severe), phlebitis, and pulmonary embolism.
- Digestive
- Colitis, esophagitis, gastrointestinal hemorrhage, gum hemorrhage, hepatitis, intestinal perforation, pancreatitis, and stomach ulcer

lyperolycemia, hypoolycemia, hyponatremia, and syndrome of inappropriate antidiuretic hormone secretion

Hemic and Lymphatic

usis. leukopenia. lymphadenopathy, pancytopenia, and thrombocytopenia

Altered PT and/or INR, infrequently associated with hemorrhagic or thrombotic complications, were observed when bupropion was coadministered with warfarin.

Metabolic and Nutritional

Musculoskeletal

Muscle rigidity/f nyolysis and muscle w

Nervous System

Abnormal electroencephalogram (EEG), aggression, akinesia, aphasia, coma, completed suicide, delirium, delusions, dysarthria, euphoria, extrapyramidal syndrome (dyskinesia, dystonia, hypokinesia, parkinsonism), hallucinations, increased libido, manic reaction, neuralgia, neuropathy, paranoid ideation, estlessness, suicide attempt, and unmasking tardive dyskinesia

Respiratory

Alonecia, angioedema, exfoliative dermatitis, hirsutism. Stevens-Johnson syndrome, acute generalized exanthematous pustulosis

Special Senses

Deafness, increased intraocular pressure, and mydriasis

Urogenital

Abnormal ejaculation cystitis dyspareunia dysuria gynecomastia menonause painful erection salpinnitis urinary incontinence urinary retention an vaginitis

7 DRUG INTERACTIONS

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

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

Inhibitors of CYP2B6

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

Inducers of CYP2B6

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

o Severe trouble sleeping

o Greatly increased energy

- o Racing thoughts
- o Reckless behavior
- o Unusually grand ideas
- o Excessive happiness or irritability
- o Talking more or faster than usual

hydrochloride extended-release tablets (SR), including:

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

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

• Visual problems.

- o eyepain
- o changes in vision
- o swelling or redness in or around the eye

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

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

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

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

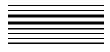
Who should not take bupropion hydrochloride extended-release tablets (SR)? Do not take bupropion hydrochloride extended-release tablets (SR) if you

- have or had a seizure disorder or epilepsy.
- have or had an eating disorder such as anorexia nervosa or bulimia.
- are taking any other medicines that contain bupropion, including ZYBAN (used to help people stop smoking), WELLBUTRIN, WELLBUTRIN XL, APLENZIN, or FORFIVO XL. Bupropion is the same active ingredient that is in bupropion hydrochloride extended-release tablets (SR).

Artwork information				
Customer	Camber	Market	USA	
Dimensions (mm)	350 x 750 mm	Non Printing Colors	Die cut	
Pharma Code No.	Front-266 & Back-267			
Printing Colours (01)	Black			

Others: Pharma code position and Orientation are tentative, will be changed based on foldina size.

Endocrine



- drink a lot of alcohol and abruptly stop drinking, or use medicines called sedatives (these make you sleepy), benzodiazepines, or anti-seizure medicines, and you stop using them all of a sudden.
- take a monoamine oxidase inhibitor (MAOI). Ask your healthcare provider or pharmacist if you are not sure if you take an MAOI, including the antibiotic linezolid.
- o do not take an MAOI within 2 weeks of stopping bupropion hydrochloride extended release tablets (SR) unless directed to do so by your healthcare provider.
- o do not start bupropion hydrochloride extended-release tablets (SR) if you stopped taking an MAOI in the last 2 weeks unless directed to do so by your healthcare provider.
- are allergic to the active ingredient in bupropion hydrochloride extended-release tablets (SR), bupropion, or to any of the inactive ingredients. See the end of this Medication Guide for a complete list of ingredients in bupropion hydrochloride extended-release tablets (SR).

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

Tell your healthcare provider if you have ever had depression, suicidal thoughts or actions, or other mental health problems. See "Antidepressant Medicines, Depression and Other Serious Mental Illnesses, and Suicidal Thoughts or Actions."

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

- o have liver problems, especially cirrhosis of the liver.
- o have kidney problems.
- o have, or have had, an eating disorder, such as anorexia nervosa or bulimia.
- o have had a head injury.
- o have had a seizure (convulsion, fit).
- o have a tumor in your nervous system (brain or spine).
- o have had a heart attack, heart problems, or high blood pressure.
- o are a diabetic taking insulin or other medicines to control your blood sugar.
- o drink alcohol.
- o abuse prescription medicines or street drugs.
- o are pregnant or plan to become pregnant. Talk to your healthcare provider about the risk to your unborn baby if you take bupropion hydrochloride extended-release tablets (SR) during pregnancy.
- o Tell your healthcare provider if you become pregnant or think you are pregnant during treatment with bupropion hydrochloride extended-release tablets (SR).
- o If you become pregnant during treatment with bupropion hydrochloride extended release tablets (SR), talk to your healthcare provider about registering with the National Pregnancy Registry for Antidepressants. You can register by calling 1 844-405-6185.
- o are breastfeeding or plan to breastfeed during treatment with bupropion hydrochloride extended-release tablets (SR). Bupropion hydrochloride passes into your milk. Talk to your healthcare provider about the best way to feed your baby during treatment with bupropion hydrochloride extended-release tablets (SR).

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

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

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

Drugs Metabolized by CYP2D6

Bupropion and its metabolites (erythrohydrobupropion, threohydrobupropion, hydroxybupropion) are CYP2D6 inhibitors. Therefore, coadministration of supropion hydrochloride extended release tablets (SR) with drugs that are metabolized by CYP2D6 can increase the exposures of drugs that are substrates of CYP2D6. Such drugs include certain antidepressants (e.g., venlafaxine, nortriptyline, imipramine, desipramine, paroxetine, fluoxetine, and sertraline), Antipsychotics (e.g., haloperidol, risperidone, thioridazine), beta-blockers (e.g., metoprolin), and Type IC antiarrhythmiss (e.g., propatence and flecanide). When used concomitantly with bupropion hydrochloride extended-release tablets (SR), it may be necessary to decrease the dose of these CYP2D6 substrates narticularly for drugs with a narrow theraneutic index

Drugs that require metabolic activation by CYP2D6 to be effective (e.g., tamoxifen) theoretically could have reduced efficacy when administered concomitantly with inhibitors of CYP2DB such as bupropion. Patients treated concomitantly with bupropion hydrochloride extended-re such drugs may require increased doses of the drug [see Clinical Pharmacology (12.3)]. ase tablets (SR) and

<u>Digoxin</u> Coadministration of bupropion hydrochloride extended-release tablets (SR) with digoxin may decrease plasma digoxin levels. Monitor plasma digoxin levels in

patients treated concomitantly with bupropion hydrochloride extended-release tablets (SR) and digoxin [see Clinical Pharmacology (12.3)].

7.3 Drugs that Lower Seizure Threshold

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

7.4 Dopaminergic Drugs (Levodopa and Amantadine

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

7.5 Use with Alcoho

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

7.6 MACInhibitors

supropion inhibits the reuptake of dopamine and norepinephrine. Concomitant use of MAOIs and bupropion is contraindicated because there is an increased risk of hypertensive reactions if bupropion is used concomitantly with MAOIs. Studies in animals demonstrate that the acute toxicity of bupropion is enhanced by the MAO inhibitor phenelzine. At least 14 days should elapse between discontinuation of an MAOI intended to treat depression and initiation of treatment with bupropion hydrochloride extended-release tablets (SR). Conversely, at least 14 days should be allow wed after stopping bupropion hydrochloride extended-release tablets (SR) before starting an MAOI antidepressant (see Dosage and Administration (2.4, 2.5), Contraindications (4)].

7.7 Drug-Laboratory Test Interactions

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

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Pregnancy Exposure Registry

There is an independent pregnancy exposure registry that monitors pregnancy outcomes in women exposed to any antidepressants during pregnancy. Healthcare providers are encouraged to register patients by calling the National Pregnancy Registry for Antidepressants at 1-844-405-6185 or visiting online at https://w

Risk Summarv

Data from epidemiological studies of pregnant women exposed to bupropion in the first trimester have not identified an increased risk of congenita malformations overall (see Data). There are risks to the mother associated with untreated depression in pregnancy (see Clinical Considerations). When bupropion was administered to pregnant rats during organogenesis, there was no evidence of fetal malformations at doses up to approximately 11 times the maximum recommended human dose (MRHD) of 400 mg/day. When given to pregnant rabbits during organogenesis, non-dose-related increases in incidence of fetal malformations, and skeletal variations were observed at doses approximately equal to the MRHD and greater. Decreased fetal weights were seen at loses twice the MRHD and greater (see Animal Data)

The estimated background risk for major birth defects and miscarriage is unknown for the indicated population. All pregnancies have a background risk of birth defect, loss, or other adverse outcomes. In the U.S. general population, the estimated background risk of major birth defects and of miscarriage in clinically recognized pregnancies is 2% to 4% and 15% to 20%, respectively.

Clinical Considerations iated Maternal and/or Embryo/Fetal Risk: A prospective, longitudinal study followed 201 pregnant women with a history of major depressive Disease-Assor

disorder who were euthymic and taking antidepressants during pregnancy at the beginning of pregnancy. The women who discontinued a during pregnancy were more likely to experience a relapse of major depression than women who continued antidepressants. Consider the risks to the mother ated depression and potential effects on the fetus when discontinuing or changing treatment with antidepressant medications during pregnancy and of untre postpartum.

Data

Human Data: Data from the international bupropion Pregnancy Registry (675 first trimester exposures) and a retrospective cohort study using the United Healthcare database (1,213 first trimester exposures) did not show an increased risk for malformations overall. The Registry was not de to evaluate specific defects but suggested a possible increase in cardiac malformations.

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

Study findings on bupropion exposure during the first trimester and risk for left ventricular outflow tract obstruction (LVOTO) are inconsistent and do not allow conclusions regarding a possible association. The United Healthcare database lacked sufficient power to evaluate this association; the NBDPS found ncreased risk for LVOTO (n = 10: adjusted OR = 2.6: 95% CI: 1.2. 5.7), and the Slone Epidemiology case control study did not find increased risk for LVOTO. Study findings on bupropion exposure during the first trimester and risk for ventricular septal defect (VSD) are inconsistent and do not allow conclusions (n = 17; adjusted OR = 2.5; 95% CI: 1.3, 5.0) but did not find increased risk for any other cardiovascular malformations studied (including LVOTO as above). The NBDPS and United Healthcare database study did not find an association between first trimester maternal bupropion exposure and VSD For the findings of LVOTO and VSD, the studies were limited by the small number of exposed cases, inconsistent findings among studies, and the potential for chance findings from multiple comparisons in case control studies

Patients with Left Ventricular Dysfunction: During a chronic dosing trial with bupropion in 14 depressed subjects with left ventricular dysfunction (history of CHF or an enlarged heart on x-ray), there was no apparent effect on the pharmacokinetics of bupropion or its metabolites, compared with healthy volunteers. Age: The effects of age on the pharmacokinetics of bupropion and its metabolites have not been fully characterized, but an exploration of steady-state bupropion concentrations from several depression efficacy trials involving subjects dosed in a range of 300 to 750 mg/day, on a 3-times-daily schedule, valed no relationship between age (18 to 83 years) and plasma concentration of bupropion. A single-dose pharmacokinetic trial demonstrated that the disposition of bupropion and its metabolites in elderly subjects was similar to that of younger subjects. These data suggest there is no prominent effect of age on bupropion concentration; however, another single- and multiple-dose pharmacokinetics trial suggested that the elderly are at increased risk for nulation of bupropion and its metabolites *[see Use in Specific Populations (8.5)]*.

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

Smokers: The effects of cigarette smoking on the pharmacokinetics of bupropion were studied in 34 healthy male and female volunteers; 17 were chronic

cigarette smokers and 17 were nonsmokers. Following oral administration of a single 150 mg dose of bupropion, there were no statistically significant differences in C_{mar}, half-life, T_{mar}, AUC, or clearance of bupropion or its active metabolites between smokers and nonsmokers.

Drug Interaction Studies

Inhibitors of CYP2B6: Ticlopidine, Clopidogrel: In a trial in healthy male volunteers, clopidogrel 75 mg once daily or ticlopidine 250 mg twice daily increased

exposures (C_{max} and AUC) of bupropion by 40% and 60% for clopidogrel, and by 38% and 85% for ticlopidine, respectively. The exposures (C_{max} and AUC) of

Prasugrel: Prasugrel is a weak inhibitor of CYP2B6. In healthy subjects, prasugrel increased bupropion C_{max} and AUC values by 14% and 18%, respective

Cimetidine: The threohydrobupropion metabolite of bupropion does not appear to be produced by cytochrome P450 enzymes. The effects of concomitant

administration of cimetidine on the pharmacokinetics of bupropion and its active metabolites were studied in 24 healthy young male volunteers. Following

oral administration of bupropion 300 mg with and without cimetidine 800 mg, the pharmacokinetics of bupropion and hydroxybupropion were unaffected

However, there were 16% and 32% increases in the AUC and C_{max}, respectively, of the combined moieties of threohydrobupropion and

Inducers of CYP2B6: Ritonavir and Lopinavir: In a healthy volunteer trial, ritonavir 100 mg twice daily reduced the AUC and Cmar of bupropion by 22% and

21%, respectively. The exposure of the hydroxybupropion metabolite was decreased by 23%, the threohydrobupropion decreased by 38%, and the

In a second healthy volunteer trial, ritonavir at a dose of 600 mg twice daily decreased the AUC and the C_{ma} of bupropion by 66% and 62%, respectively. The

exposure of the hydroxybupropion metabolite was decreased by 78%, the threohydrobupropion decreased by 50%, and the erythrohydrobupropion

In another healthy volunteer trial, lopinavir 400 mg/ritonavir 100 mg twice daily decreased bupropion AUC and C_, by 57%. The AUC and C_, of

Efavirenz: In a trial in healthy volunteers, efavirenz 600 mg once daily for 2 weeks reduced the AUC and C., of bupropion by approximately 55% and 34%.

Potential for Bupropion Hydrochloride Extended-Release Tablets (SR) to Affect Other Drugs Animal data indicated that bupropion may be an inducer of drug-metabolizing enzymes in humans. In one trial, following chronic administration of bupropion

100 mg three times daily to 8 healthy male volunteers for 14 days, there was no evidence of induction of its own metabolism. Nevertheless, there may be

Drugs Metabolized by CYP2D6: In vitro, bupropion and its metabolites (ervthrohydrobupropion, threohydrobupropion, hydroxybupropion) are CYP2D6

single dose of 50 mg desipramine increased the C_, AUC, and t₁₂ of desipramine by an average of approximately 2-, 5-, and 2-fold, respectively. The effect

Citalopram: Although citalopram is not primarily metabolized by CYP2D6, in one trial bupropion increased the Counter and AUC of citalopram by 30% and 40%,

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

Digoxin: Literature data showed that digoxin exposure was decreased when a single oral dose of 0.5 mg digoxin was administered 24 hours after a single oral

approximately 7 and 2 times the MRHD, respectively, on a mg/m² basis. In the rat study there 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 doses were not tested. The question of whether or not such

esions may be precursors of neoplasms of the liver is currently unresolved. Similar liver lesions were not seen in the mouse study, and no increase in

Bupropion produced a positive response (2 to 3 times control mutation rate) in 2 of 5 strains in the Ames bacterial mutagenicity assay. Bupropion produced

There were no effects on male and female fertility when rats were administered oral doses of bupropion up to 300 mg/kg/day (approximately 7 times the

he efficacy of the immediate-release formulation of bupropion in the treatment of major depressive disorder was established in two 4-week, placebo

controlled trials in adult inpatients with MDD (Trials 1 and 2 in Table 6) and in one 6-week, placebo-controlled trial in adult outpatients with MDD (Trial 3 in

Table 6). In the first trial, the dose range of bupropion was 300 mg to 600 mg/day administered in divided doses; 78% of subjects were treated with doses of

300 mg to 450 mg/day. This trial demonstrated the effectiveness of the immediate-release formulation of bupropion by the Hamilton Depression Ra

ver, doses of 200 mg/kg/day (approximately 5 times the MRHD on a mg/m² basis) or greater, caused transient ataxia or behavioral changes i

MRHD on a mg/m² basis) to females prior to mating and either through Day 13 of gestation or through lactation, and to males for 60 days prior to and through

adult female rats. There were also no adverse effects on fertility, reproduction, or growth and development of male or female offspring

nicity studies were performed in rats and mice at bupropion doses up to 300 and 150 mg/kg/day, respectively. These doses are

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

hibitors. In a clinical trial of 15 male subjects (ages 19 to 35 years) who were extensive metabolizers of CYP2D6, bupropion 300 mg/day followed by a

pion were decreased 50% and 52%, respectively, by clopidogrel, and 78% and 84%, respectively, by ticlopidine. This effect is thought to be

nitial for Other Drugs to Affect Bupropion Hydrochloride Extended-Release tablets (SR): In vitro studies indicate that bupropion is primarily metabolized

to hydroxybupropion by CYP2B6. Therefore, the potential exists for drug interactions between bupropion hydrochloride extended-release tablets (SR) and

inhibit the hydroxylation of bupropion.

due to the inhibition of the CYP2B6-catalyzed bupropion hydroxylation.

hydroxybupropion were decreased by 50% and 31%, respectively.

se of extended-release 150 mg bupropion in healthy volunt

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

malignant tumors of the liver and other organs was seen in either study.

an increase in chromosomal aberrations in 1 of 3 in vivo rat bone marrow cytogenetic studies.

13 NONCLINICAL TOXICOLOGY

hvdroxvhunr

erythrohydrohunronion

decreased by 68%.

formally studied.

Lifetime carcinone

14 CLINICAL STUDIES

respectively.

volunteers

erythrohydrobupropion decreased by 48%.

and decreased C_m, and AUC values of hydroxybupropion, an active metabolite of bupropion, by 32% and 24%, respectively

respectively. The AUC of hydroxybupropion was unchanged, whereas $C_{\scriptscriptstyle max}$ of hydroxybupropion was increased by 50%.

Carbamazepine, Phenobarbital, Phenytoin: While not systematically studied, these drugs may induce the metabolism of bupm

Citalopram: Citalopram did not affect the pharmacokinetics of bupropion and its three metabolites.

ential for clinically important alterations of blood levels of co-administered drugs.

drugs that are inhibitors or inducers of CYP2B6. In addition, in vitro studies suggest that paroxetine, sertraline, norfluoxetine, fluvoxamine, and nelfinavi

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

- Take bupropion hydrochloride extended-release tablets (SR) exactly as prescribed by your healthcare provider. Do not change your dose or stop taking bupropion hydrochloride extended-release tablets (SR) without talking to your healthcare provider first.
- Swallow bupropion hydrochloride extended-release tablets (SR) whole. Do not chew, cut, or crush bupropion hydrochloride extended-release tablets (SR). If you do, the medicine will be released into your body too quickly. If this happens you may be more likely to get side effects including seizures. Tell your healthcare provider if you cannot swallow tablets.
- Bupropion hydrochloride extended-release tablets (SR) may have an odor. This is normal.
- Take bupropion hydrochloride extended-release tablets (SR) at the same time each day.
- Take your doses of bupropion hydrochloride extended-release tablets (SR) at least 8 hours apart.

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

- If you miss a dose, do not take an extra dose to make up for the dose you missed. Wait and take your next dose at the regular time. This is very important. Too much bupropion hydrochloride extended-release tablets (SR) can increase your chance of having a seizure.
- If you take too much bupropion hydrochloride extended-release tablets (SR), or overdose, call your local emergency room or poison control center right away.
- Do not take any other medicines while taking bupropion hydrochloride extended release tablets (SR) unless your healthcare provider has told you it is okay.
- If you are taking bupropion hydrochloride extended-release tablets (SR) for the treatment of major depressive disorder, it may take several weeks for you to feel that bupropion hydrochloride extended-release tablets (SR) is working. Once you feel better, it is important to keep taking bupropion hydrochloride extended-release tablets (SR) exactly as directed by your healthcare provider. Call your healthcare provider if you do not feel bupropion hydrochloride extended-release tablets (SR) is working for you.

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

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

What are possible side effects of bupropion hydrochloride extended-release tablets (SR)? Bupropion hydrochloride extended-release tablets (SR) can cause serious side effects. See the sections at the beginning of this Medication Guide for information about serious side effects

of bupropion hydrochloride extended-release tablets (SR).

The most common side effects of bupropion hydrochloride extended-release tablets (SR) include:

constipation

hood	lacho	1

- dizziness dry mouth sore throat
- nausea
- trouble sleeping

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 healthcare provider right away about any side effects that bother you.

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

Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

You may also report side effects to Annora Pharma Private Limited at 1-866-495-1995.

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

• Store bupropion hydrochloride extended-release tablets (SR) at room temperature between 68°F and 77°F (20°C to 25°C).

Keep bupropion hydrochloride extended-release tablets (SR) dry and out of the light.

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

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

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

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

This Medication Guide summarizes important information about bupropion hydrochloride extended-release tablets (SR). If you would like more information, talk with your healthcare provider. You can ask your healthcare provider or pharmacist for information about bupropion

Animal Data: In studies conducted in pregnant rats and rabbits, bupropion was administered orally during the period of organogenesis at doses of up to 450 nd 150 mg/kg/day, respectively (approximately 11 and 7 times the MRHD, respectively, on a mg/m²basis). There was no evidence of fetal malformations rats. When given to pregnant rabbits during organogenesis, non-dose-related increases in incidence of fetal malformations and skeletal variations were observed at the lowest dose tested (25 mg/kg/day, approximately equal to the MRHD on a mg/m² basis) and greater. Decreased fetal weights were observed at doses of 50 mg/kg/day (approximately 2 times the MRHD on a mg/m²basis) and greater. No maternal toxicity was evident at doses of 50 mg/kg/day or

In a pre- and postnatal development study, bupropion administered orally to pregnant rats at doses of up to 150 mg/kg/day (approximately 4 times the MRHD on a mg/m² basis) from embryonic implantation through lactation had no effect on pup growth or developm

8.2 Lactation Risk Summary

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

In a lactation study of 10 women, levels of orally dosed bupropion and its active metabolites were measured in expressed milk. The average daily infant exposure (assuming 150 mL/kg daily consumption) to bupropion and its active metabolites was 2% of the maternal weight-adjusted dose. Postmarketing reports have described seizures in breastfed infants. The relationship of bupropion exposure and these seizures is unclear.

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

8.5 Geriatric Use

Of the approximately 6,000 subjects who participated in clinical trials with bupropion sustained-release tablets (depression and smoking cessation trials), 275 were aged ≥65 years and 47 were aged ≥75 years. In addition, several hundred subjects aged ≥65 years participated in clinical triated using the immediate-release formulation of bupropion (depression trials). No overall differences in safety or effectiveness were observed between these subjects and younger subjects. Reported clinical experience has not identified differences in responses between the elderly and younger patients, but greater sensitivity of e older individuals cannot be ruled out

Bupropion is extensively metabolized in the liver to active metabolites, which are further metabolized and excreted by the kidneys. The risk of adverse reactions may be greater in patients with impaired renal function. Because elderly patients are more likely to have decreased renal function, it may be necessary to consider this factor in dose selection; it may be useful to monitor renal function (see Dosage and Administration (2.3), Use in Specific Populations (8.6), Clinical Pharmacology (12.3)].

8.6 Renal Impairmen

Consider a reduced dose and/or dosing frequency of bupropion hydrochloride extended-release tablets (SR) in patients with renal impairment (GFR less than 90 mL/min). Bupropion and its metabolites are cleared renally and may accumulate in such patients to a greater extent than usual. Monitor reactions that could indicate high bupropion or metabolite exposures [see Dosage and Administration (2.3), Clinical Pharmacology (12.3)]. or closely for adverse

8.7 Hepatic Impairment

s with moderate to severe hepatic impairment (Child Pugh score: 7 to 15), the maximum dose of bupropion hydrochloride extended release tablets (SR) is 100 mg/day or 150 mg every other day. In patients with mild hepatic impairment (Child-Pugh score: 5 to 6), consider reducing the dose and/or frequency of dosing *(see Dosage and Administration (2.2), Clinical Pharmacology (12.3)).*

DRUG ABUSE AND DEPENDENCE

9.1 Controlled Substance Bupropion is not a controlled substance

9.2 Abuse

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

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

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

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

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

effects of psychoactive drugs 10 OVERDOSAGE

10.1 Human Overdose Experience

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

Although most patients recovered without sequelae, deaths associated with overdoses of bupropion alone have been reported in patients ingesting large doses of the drug. Multiple uncontrolled seizures, bradycardia, cardiac failure, and cardiac arrest prior to death were reported in these patients 10.2 Overdosage Manage

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

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

11 DESCRIPTION

pion hydrochloride, USP is an antidepressant of the aminoketone class, is chemically unrelated to tricyclic, tetracyclic, selective serotonin re-uptake inhibitor, or other known antidepressant agents. Its structure closely resembles that of diethylpropion; it is related to phenylethylamines. It is designated as (±):1-(3-chlorophenyl)-2-(1, 1-dimethylethyl)aminol-1-propanone hydrochloride. The molecular weight is 276.20. The molecular formula is C.-H.-CINO+HCI. hloride is white powder, and soluble in water, 0.1 N Hydrochloric acid and in alcohol. The structural formula i

,CH₃ CH³.HCl ĊH, ĊH

pion hydrochloride extended-release tablets USP (SR) are supplied for oral administration as 100 mg (red), 150 mg (green), and 200 mg (yellow), filmcoated, sustained-release tablets. Each tablet contains the labeled amount of bupropion hydrochloride USP and the inactive ingredients: colloidal silicon dioxide diluted hydrochloride acid hynromellose magnesium stearate microcrystalline cellulose polyethylene glycol, polysorbate 80, sodium stearal umarate, titanium dioxide and is printed with edible black ink. In addition, the 100 mg tablet contains FD&C Red #40, the 150 mg tablet contains FD&C Blue #1 and D&C Yellow #10 Lake and the 200 mg tablet contains D&C Yellow #10 Lake.

FDA approved dissolution test specifications differ from USP.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

The exact mechanism of the antidepressant action of bupropion is not known but is presumed to be related to noradrenergic and/or dopaminergic mechanisms. Bupropion is a relatively weak inhibitor of the neuronal reuptake of norepinephrine and dopamine and does not inhibit the reuptake of serotonin. pion does not inhibit monoamine oxidase

12.3 Pharmacokinetics

Bupropion is a racemic mixture. The pharmacological activity and pharmacokinetics of the individual enantiomers have not been studied. The mean tion half-life (±SD) of bupropion after chronic dosing is 21 (±9) hours, and steady-state plasma concentrations of bupropion are reached within 8 days.

Absorption

The absolute bioavailability of bupropion hydrochloride extended-release tablets (SR) in humans has not been determined because an intravenous for basic distribution of the second se second sec

n humans, following oral administration of bupropion hydrochloride extended-release tablets (SR), peak plasma concentration (C_{mu}) of bupropion is usually achieved within 3 hours.

In a trial comparing chronic dosing with bupropion hydrochloride extended-release tablets (SR) 150 mg twice daily to bupropion immediate-release formulation 100 mg 3 times daily, the steady state C_{uni} for bupropion after bupropion hydrochloride extended-release tablets (SR) administration was approximately 85% of those achieved after bupropion immediate-release formulation administration. Exposure (AUC) to bupropion was equivalent for both formulations. Bioequivalence was also demonstrated for all three major active metabolites (i.e., hydroxybupropion, threohydrobupropion and

Scale (HDRS) total score, the HDRS depressed mood item (Item 1), and the Clinical Global Impressions severity score (CGI-S). The second trial included doses of the immediate-release formulation of bupropion (300 and 450 mg/day) and placebo. This trial demonstrated the effectiveness of the immediate release formulation of bupropion, but only at the 450 mg/day dose. The efficacy results were significant for the HDRS total score and the CGI-S score, but not for HDRS Item 1. In the third trial, outpatients were treated with 300 mg/day of the immediate-release formulation of bupropion. This trial demonstrated the efficacy of the immediate release formulation of bupropion as measured by the HDRS total score, the HDRS Item 1, the Montgomery Asberg Depression Rating Scale (MADRS), the CGI-S score, and the CGI-Improvement Scale (CGI-I) score.

Table 6. Efficacy of Immediate Release Bupropion for the Treatment of Major Depressive Disorde

		Primary Efficacy Measure: HDRS			
Trial Number	Treatment Group	Mean Baseline Score (SD)	LS Mean Score at Endpoint Visit (SE)	Placebo-subtracted Difference [®] (95% Cl)	
Trial 1	Immediate-Release Bupropion 300 to 600 mg/day ^s (n = 48)	28.5 (5.1)	14.9 (1.3)	-4.7 (-8.8, -0.6)	
	Placebo (n = 27)	29.3 (7.0)	19.6 (1.6)		
		Mean Baseline Score (SD)	LS Mean Change from Baseline (SE)	Placebo-subtracte Difference [®] (95% Cl)	
Trial 2	Immediate-Release Bupropion 300 mg/day (n = 36)	32.4 (5.9)	-15.5 (1.7)	-4.1	
	Immediate-Release Bupropion 450 mg/day ^s (n = 34)	34.8 (4.6)	-17.4 (1.7)	-5.9 (-10.5, -1.4)	
	Placebo (n = 39)	32.9 (5.4)	-11.5 (1.6)		
Trial 3	Immediate-Release Bupropion 300 mg/day ^b (n = 110)	26.5 (4.3)	-12.0 (NA)	-3.9 (-5.7, -1.0)	
	Placebo (n = 106)	27.0 (3.5)	-8.7 (NA)		

n: sample size; SD: standard deviation; SE: standard error; LS Mean: least-squares mean; CI: unadjusted confidence interval included for doses that were strated to be effective: NA: not available

* Difference (drug minus placebo) in least-squares estimates with respect to the primary efficacy parameter. For Trial 1, it refers to the mean score at the endpoint visit; for Trials 2 and 3, it refers to the mean change from baseline to the endpoint visit. ⁶ Doses that are demonstrated to be statistically significantly superior to placebo.

Although there are not as yet independent trials demonstrating the antidepressant effectiveness of the sustained release formulation of bupropion, trials have demonstrated the bioequivalence of the immediate-release and sustained-release forms of bupropion under steady-state conditions, i.e., bupropi sustained-release 150 mg twice daily was shown to be bioequivalent to 100 mg 3 times daily of the immediate-release formulation of bupropion, with regard to both rate and extent of absorption, for parent drug and metabolites.

n a longer-term trial, outpatients meeting DSM-IV criteria for major depressive disorder, recurrent type, who had responded during an 8-week open trial or bupropion hydrochloride extended release tablets (SR) (150 mg twice daily) were randomized to continuation of their same dose of bupropion hydrochloride extended-release tablets (SR) or placebo for up to 44 weeks 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-blind phase was defined as the investigator's judgment that drug treatment was needed for worsening depressive symptoms. Patients receiving continued treatment with bupropion hydrochloride lets (SR) experienced significantly lower relapse rates over the subsequent 44 weeks compared with those receiving placed

16 HOW SUPPLIED/STORAGE AND HANDLING

Bupropion hydrochloride extended-release tablets USP (SR), 100 mg of bupropion hydrochloride are red colored, round biconvex bevel edged film coated inted with 'V1 48' on one side and plain on other side are

ttle of 60 tablets	NDC 31722-066-60
ttle of 100 tablets	NDC 31722-066-01
ttle of 500 tablets	NDC 31722-066-05

Bupropion hydrochloride extended-release tablets USP (SR), 150 mg of bupropion hydrochloride are green colored, round biconvex bevel edged film coated nted with 'V1 49' on one side and plain on other side are supplied as follow

Bottle of 60 tablets	NDC 31722-067-60
Bottle of 90 tablets	NDC 31722-067-90
Bottle of 100 tablets	NDC 31722-067-01
Bottle of 250 tablets	NDC 31722-067-25
Bottle of 500 tablets	NDC 31722-067-05
Bupropion hydrochloride extended-release tablets	USP (SR), 200 ma of bupropion hvd

Bupropior n hydrochloride are yellow colored, round biconvex bevel edged film coated

tablets imprinted with vi 50 on one	side and highlight of other side are subblied as follows
Bottle of 60 tablets	NDC 31722-068-60
Bottle of 90 tablets	NDC 31722-068-90
Bottle of 100 tablets	NDC 31722-068-01
Bottle of 500 tablets	NDC 31722-068-05

Store at room temperature, 20° to 25°C (68° to 77°F); excursions permitted between 15° and 30°C (59° and 86°F) [see USP Controlled Room [emperature]. Protect from light and moist

PATIENT COUNSELING INFORMATION

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

Suicidal Thoughts and Behaviors

Severe Allergic Reactions

Angle-Closure Glaucoma

Warnings and Precautions (5.7))

Bupropion-Containing Products

Potential for Cognitive and Motor Impairment

reaction.

Seizure

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

seizure. Advise patients to minimize or avoid use of alcohol.

2 divided doses, preferably with at least 8 hours between successive doses, to minimize the risk of seizures.

generic bupropion HCI products for the immediate-, sustained-, and extended-release formulations

hydrochloride extended-release tablets (SR) and other drugs may affect each others' metabolisn

bupropion hydrochloride extended-release tablets (SR) during pregnancy [see Use in Specific Populations (8.1)].

release tablets (SR) may lead to decreased alcohol toleranc

Neuropsychiatric Adverse Events and Suicide Risk in Smoking Cessation Treatment Although bupropion hydrochloride extended-release tablets (SR) are not indicated for smoking cessation treatment, it contains the same active ingredient as ZYBAN which is approved for this use. Inform patients that some patients have experienced changes in mood (including depression and mania), psychosis, nallucinations, paranoia, delusions, homicidal ideation, aggression, hostility, agitation, anxiety, and panic, as well as suicidal ideation and suicide whe attempting to quit smoking while taking bupropion. Instruct patients to discontinue bupropion and contact a healthcare professional if they experience such ns [see Warnings and Precautions (5.2). Adverse Reactions (6.2)]

ate patients on the symptoms of hypersensitivity and to discontinue bupropion hydrochloride extended-release tablets (SR) if they have a severe allergic

Instruct patients to discontinue and not restart bupropion hydrochloride extended-release tablets (SR) if they experience a seizure while on treatment. Advise

patients that the excessive use or abrupt discontinuation of alcohol, benzodiazepines, antiepileptic drugs, or sedatives/hypnotics can increase the risk of

As the dose is increased during initial titration to doses above 150 mg/day, instruct patients to take bupropion hydrochloride extended release tablets (SR) in

Patients should be advised that taking hunronion bydrochloride extended release tablets (SB) can cause mild numillary dilation, which in suscentible individuals, can lead to an episode of angle-closure glaucoma. Pre-existing glaucoma is almost always open-angle glaucoma because angle-closure glaucoma, when diagnosed, can be treated definitively with iridectomy. Open-angle glaucoma is not a risk factor for angle-closure glaucoma. Patients may wish to be

examined to determine whether they are susceptible to angle closure, and have a prophylactic procedure (e.g., iridectomy), if they are susceptible [see

Educate patients that bupropion hydrochloride extended release tablets (SR) contains the same active ingredient (bupropion hydrochloride) found in ZYBAN.

XL, the extended-release formulations, and APLENZIN, the extended-release formulation of bupropion hydrobromide). In addition, there are a number of

vise patients that any CNS active drug like bupropion hydrochloride extended release tablets (SR) may impair their ability to perform tasks requiring iudgment or motor and cognitive skills. Advise patients that until they are reasonably certain that bupropion hydrochloride extended-release tablets (SR) do

not adversely affect their performance, they should refrain from driving an automobile or operating complex, hazardous machinery. Bupropion hydrochloride

Counsel patients to notify their healthcare provider if they are taking or plan to take any prescription or over-the-counter drugs because bupropion

ents to notify their healthcare provider if they become pregnant or intend to become pregnant during therapy with bupropion hydrochloride extended-release tablets (SR). Advise patients that there is a pregnancy exposure registry that monitors pregnancy outcomes in women exposed to

natients to store bupropion hydrochloride extended-release tablets (SR) at room temperature, between 68°F and 77°F (20°C to 25°C) and keen the

which is used as an aid to smoking cessation treatment, and that hunronion hydrochloride extended release tablets (SB) should not be used in combi vith ZYBAN or any other medications that contain bupropion (such as WELLBUTRIN, the immediate-release formulation and WELLBUTRIN XL or FORFIVO

hydrochloride extended-release tablets (SR) that is written for healthcare professionals.

For more information about bupropion hydrochloride extended-release tablets (SR), call 1-866-495-1995.

What are the ingredients in bupropion hydrochloride extended-release tablets (SR)? Active ingredient: bupropion hydrochloride USP.

Inactive ingredients: colloidal silicon dioxide, diluted hydrochloride acid, hypromellose, magnesium stearate, microcrystalline cellulose, polyethylene glycol, polysorbate 80, sodium stearyl fumarate, titanium dioxide and is printed with edible black ink. In addition, the 100 mg tablet contains FD&C Red #40, the 150 mg tablet contains FD&C Blue #1 and D&C Yellow #10 Lake and the 200 mg tablet contains D&C Yellow #10 Lake.

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This Medication Guide has been approved by the U.S. Food and Drug Administration. Medication Guide available at http://camberpharma.com/medication-guides



Manufactured for: Camber Pharmaceuticals, Inc. Piscataway, NJ 08854

By: Annora Pharma Pvt. Ltd. Sangareddy - 502313, Telangana, India.

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erythrohydrobupropion) for both C.,, and AUC. Thus, at steady state, bupropion hydrochloride extended-release tablets (SR) given twice daily, and the mmediate-release formulation of burpopion given 3 times daily, are essentially bioequivalent for both bupropion and the 3 quantitatively important metabolites.

Bupropion hydrochloride extended-release tablets (SR) can be taken with or without food. Bupropion C_{max} and AUC were increased by 11% to 35% and 16% to 19% respectively, when hunronion hydrochloride extended release tablets (SR) was administered with food to healthy volunteers in three trials. The food effect is not considered clinically significant

Distribution

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

Metabolism

sively metabolized in humans. Three metabolites are active: hydroxybupropion, which is formed via hydroxylation of the *tert*-butyl group Bupropion is exte of bupropion, and the amino alcohol isomers, threohydrobupropion and erythrobydrobupropion, which are formed via reduction of the carbonyl group, In vitro indings suggest that CYP2B6 is the principal isoenzyme involved in the formation of hydroxybupropion, while cytochrome P450 enzymes are not involved in the formation of threohydrobupropion. Oxidation of the bupropion side chain results in the formation of a glycine conjugate of meta-chlorobenzoic acid, which is then excreted as the major urinary metabolite. The potency and toxicity of the metabolites relative to bupropion have not been fully characterized. lowever, it has been demonstrated in an antidepressant screening test in mice that hydroxybupropion is one-half as potent as bupropion, while threohydrobupropion and erythrohydrobupropion are 5-fold less potent than bupropion. This may be of clinical importance because the plasma concentrations of the metabolites are as high as or higher than those of bupropion.

Following a single-dose administration of bupropion hydrochloride extended-release tablets (SR) in humans, C_{mu} of hydroxybupropion occurs approximately The formal grange scale and a proving the property of the scale of the proving the scale of the erythrohydrobupropion and threohydrobupropion metabolites are similar to that of the hydroxybupropion metabolite. However, their elimination half-lives are longer, 33(±10) and 37 (±13) hours, respectively, and steady-state AUCs are 1.5 and 7 times that of bupropion, respectively. Bupropion and its metabolites exhibit linear kinetics following chronic administration of 300 to 450 mg/day

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. Only 0.5% of the oral dose was excreted as unchanged bupropior

Specific Populations

Factors or conditions altering metabolic capacity (e.g., liver disease, congestive heart failure (CHF), age, concomitant medications, etc.) or elimination may ractors or community and my metabolic capacity (e.g., new usease, congestive near random (chr), age, concommant metabolities, etc.) or eminiation may be expected to influence the degree and extern of a cocumulation of the active metabolities of bupropion. The elimination of the major metabolities of bupropion may be affected by reduced renal or hepatic function because they are moderately polar compounds and are likely to undergo further metabolities for conjugation in the liver prior to urinary excretion

Patients with Renal Impairment; There is limited information on the pharmacokinetics of hupropion in patients with renal impairment. An inter-trial n between normal subjects and subjects with end-stage renal failure demonstrated that the parent drug C_{max} 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 subjects with end-stage renal failure. A second trial, comparing normal subjects and subjects with moderate-to-severe renal impairment (GFR 30.9 ± 10.8 mL/min), showed that after a single 150 mg dose of sustained-release bupropion, exposure to bupropion was approximately 2-fold higher in subjects with impaired renal function, while levels of the hydroxybupropion and threo/erythrohydrobupropion (combined) metabolites were similar in the 2 groups. Bupropion is extensively metabolized in the liver to active metabolites, which are further metabolized and subsequently excreted by the kidneys. The elimination of the major metabolites of bupropion may be reduced by impaired renal function. Bupropion hydrochloride extended-release tablets (SR) should be used with caution in patients with renal impairment and a reduced frequency and/or dose should be considered [see Use in Specific Populations (8.6)].

Patients with Hepatic Impairment: The effect of hepatic impairment on the pharmacokinetics of bupropion was characterized in 2 single-dose trials, one in subjects with alcoholic liver disease and one in subjects with mild-to-severe cirrhosis. The first trial demonstrated that the half-life of hydroxybupropion w significantly longer in 8 subjects with alcoholic liver disease than in 8 healthy volunteers (32 ± 14 hours versus 21 ± 5 hours, re statistically significant, the AUCs for bupropion and hydroxybupropion were more variable and tended to be greater (by 53% to 57%) in volunteers with alcoholic liver disease. The differences in half-life for bupropion and the other metabolites in the 2 groups were minimal.

The second trial demonstrated no statistically significant differences in the pharmacokinetics of bupropion and its active metabolites in 9 subjects with erate hepatic cirrhosis compared with 8 healthy volunteers. However, more variability was observed in some of the pharm parameters for bupropion (AUC, C_{max}, and T_{max}) and its active metabolites (t_x) in subjects with mild-to-moderate hepatic cirrhosis. In subjects with severe hepatic cirrhosis, significant alterations in the pharmacokinetics of bupropion and its metabolites were seen (Table 5).

Table 5. Pharmacokinetics of Bupropion and Metabolites in Patients with Severe Hepatic Cirrhosis: Ratio Relative to Healthy Matched Controls

		C _{max}	AUC	t _{1/2}	T _{max} *
	Bupropion	1.69	3.12	1.43	0.5 h
	Hydroxybupropion	0.31	1.28	3.88	19 h
I	Threo/erythrohydrobupropion amino alcohol	0.69	2.48	1.96	20 h

tablets dry and out of the light Administration Information

Storage Information

Concomitant Medications

Pregnancy

Instruct patients to swallow bupropion hydrochloride extended-release tablets (SR) whole so that the release rate is not altered. Do not chew, divide, or crush extended-release tablets (SR) in 2 doses at least 8 hours apart, to minimize the risk of seizures. Instruct patients if they miss a dose, not to take an extra tablet to make up for the missed dose and to take the next tablet at the regular time because of the dose-related risk of seizure. Instruct patients that bupropion hydrochloride extended-release tablets (SR) may have an odor. Bupropion hydrochloride extended-release tablets (SR) can be taken with or

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