

# Medication Information for Parents and Teachers

## ***Bupropion—Wellbutrin, Budeprion***

### **General Information About Medication**

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Each child and adolescent is different. No one has exactly the same combination of medical and psychological problems. It is a good idea to talk with the doctor or nurse about the reasons a medicine is being used. It is very important to keep all appointments and to be in touch by telephone if you have concerns. It is important to communicate with the doctor, nurse, or therapist.

It is very important that the medicine be taken exactly as the doctor instructs. However, once in a while, everyone forgets to give a medicine on time. It is a good idea to ask the doctor or nurse what to do if this happens. Do not stop or change a medicine without asking the doctor or nurse first.

If the medicine seems to stop working, it may be because it is not being taken regularly. The youth may be “cheeking” or hiding the medicine or forgetting to take it (especially at school). The doses may be too far apart, or a different dose may be needed. Something at school, at home, or in the neighborhood may be upsetting the youth, or he or she may need special help for learning disabilities or tutoring. Please discuss your concerns with the doctor. **Do not just increase the dose.**

All medicines should be kept in a safe place, out of the reach of children, and should be supervised by an adult. If someone takes too much of a medicine, call the doctor, the poison control center, or a hospital emergency room.

Each medicine has a “generic” or chemical name. Just like laundry detergents or paper towels, some medicines are sold by more than one company under different brand names. The same medicine may be available under a generic name and several brand names. The generic medications are usually less expensive than the brand name ones. The generic medications have the same chemical formula, but they may or may not be exactly the same strength as the brand-name medications. Also, some brands of pills contain dye that can cause allergic reactions. It is a good idea to talk to the doctor and the pharmacist about whether it is important to use a specific brand of medicine.

All medicines can cause an allergic reaction. Examples are hives, itching, rashes, swelling, and trouble breathing. Even a tiny amount of a medicine can cause a reaction in patients who are allergic to that medicine. Be *sure* to talk to the doctor before restarting a medicine that has caused an allergic reaction.

Taking more than one medicine at the same time may cause more side effects or cause one of the medicines to not work as well. Always ask the doctor, nurse, or pharmacist before adding another medicine, whether prescription or over-the-counter. Be sure that each doctor knows about *all* of the medicines your child is taking. Also tell the doctor about any vitamins, herbal medicines, or supplements your child may be taking. Some of these may have side effects alone or when taken with this medication.

Everyone taking medicine should have a physical examination at least once a year.

If you suspect the youth is using drugs or alcohol, please tell the doctor right away.

Pregnancy requires special care in the use of medicine. Please tell the doctor immediately if you suspect the teenager is pregnant or might become pregnant.

Printed information like this applies to children and adolescents in general. If you have questions about the medicine, or if you notice changes or anything unusual, please ask the doctor or nurse. As scientific research advances, knowledge increases and advice changes. Even experts do not always agree. Many medicines have not been approved by the U.S. Food and Drug Administration (FDA) for use in children. For this reason, use of the medicine for a particular problem or age group often is not listed in the *Physicians' Desk Reference*. This does not necessarily mean that the medicine is dangerous or does not work, only that the company that makes the medicine has not received permission to advertise the medicine for use in children. Companies often do not apply for this permission because it is expensive to do the tests needed to apply for approval for use in children. Once a medication is approved by the FDA for any purpose, a doctor is allowed to prescribe it according to research and clinical experience.

## Note to Teachers

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It is a good idea to talk with the parent(s) about the reason(s) that a medication is being used. If the parent(s) sign consent to release information, it is often helpful to talk with the doctor. If the parent(s) give permission, the doctor may ask you to fill out rating forms about your experience with the student's behavior, feelings, academic performance, and medication side effects. This information is very useful in selecting and monitoring medication treatment. If you have observations that you think are important, do not hesitate to share these with the student's parent(s) and treating clinicians.

It is very important that the medicine be taken exactly as the doctor instructs. However, everyone forgets to give a medicine on time once in a while. It is a good idea to ask the parent(s) in advance what to do if this happens. Do not stop or change the time you are giving a medicine at school without parental permission. If a medication is to be taken with food, but lunchtime or snack time changes, be sure to notify the parent(s) so appropriate adjustments can be made.

All medicines should be kept in a secure place and should be supervised by an adult. If someone takes too much of a medicine, follow your school procedure for an urgent medical problem.

Taking medicine is a private matter and is best managed discreetly and confidentially. It is important to be sensitive to the student's feelings about taking medicine.

If you suspect that the student is using drugs or alcohol, please tell the parent(s) or a school counselor right away.

Please tell the parent(s) or school nurse if you suspect medication side effects.

- If the student has dry mouth, it helps to allow chewing of sugar-free gum or extra trips to the water fountain.
- The medicine may cause the student to be constipated; allowing the student to drink more fluids and use the bathroom more often may help. The student may need to use a bathroom with more privacy.
- If the medicine gives the student an upset stomach, it may help to take the medicine after a meal or a snack.
- The student may become dizzy when standing up quickly in the classroom or during physical education; suggest that the student stand up more slowly.

Modifications of the classroom environment or assignments may be useful in addition to medication. The student may need to be evaluated for additional help or for an Individualized Education Plan for learning or behavior.

Any expression of suicidal thoughts or feelings or self-harm by a child or adolescent is a clear signal of distress and should be taken seriously. These behaviors should not be dismissed as "attention seeking."

## What Is Bupropion (Wellbutrin, Budeprion)?

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Bupropion is called an *antidepressant*, but it is used to treat behavioral problems, including attention-deficit/hyperactivity disorder (ADHD or ADD) and conduct problems, as well as depression. Bupropion comes in immediate-release tablets (Wellbutrin and generic), sustained-release long-acting tablets (Wellbutrin SR, Budeprion SR, and generic), and very long-acting extended-release tablets (Wellbutrin XL). Bupropion also comes in brand names Zyban and Buproban, which are used to help people stop smoking.

## How Can This Medicine Help?

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Bupropion can decrease symptoms of ADHD, impulsive behavior, depression, and aggression.

## How Does This Medicine Work?

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Bupropion helps by balancing the levels of certain chemicals that are naturally found in the brain, called *neurotransmitters*. Neurotransmitters are the chemicals that the brain makes for the nerve cells to communicate with each other. Bupropion is sometimes called a *dopamine-norepinephrine reuptake inhibitor*.

## How Long Does This Medicine Last?

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Immediate-release bupropion must be taken three times a day. The sustained-release form can be taken twice a day, and the extended-release form can be taken only once a day.

## How Will the Doctor Monitor This Medicine?

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The doctor will review your child's medical history and physical examination before starting bupropion. The doctor may order some tests to be sure your child does not have a hidden medical condition that would make it unsafe to use this medicine. Bupropion should *not* be used if the child has an eating disorder (anorexia nervosa or bulimia) or a brain problem such as seizures (epilepsy), a head injury, or a brain tumor. **Extra caution is needed when using this medicine in children and adolescents with liver or kidney problems.**

The doctor or nurse may measure your child's pulse and blood pressure before starting bupropion.

After the medicine is started, the doctor will want to have regular appointments with you and your child to see how the medicine is working, to see if a dose change is needed, to watch for side effects, to see if bupropion is still needed, and to see if any other treatment is needed. The doctor or nurse may check your child's height, weight, pulse, and blood pressure.

## What Side Effects Can This Medicine Have?

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Any medicine can have side effects, including an allergy to the medicine. Allergy to bupropion is more common if the patient has had allergic reactions to other medicines. Because each patient is different, the doctor will monitor the youth closely, especially when the medicine is started. The doctor will work with you to

increase the positive effects and decrease the negative effects of the medicine. Please tell the doctor if any of the listed side effects appear or if you think that the medicine is causing any other problems. Not all of the rare or unusual side effects are listed.

Side effects are most common after starting the medicine or after a dose increase. Many side effects can be avoided or lessened by starting with a very low dose and increasing it slowly—ask the doctor.

## Allergic Reaction

Tell the doctor in a day or two (if possible, before the next dose of medicine):

- Hives
- Itching
- Rash

Stop the medicine and get *immediate* medical care:

- Trouble breathing or chest tightness
- Swelling of lips, tongue, or throat

## Common Side Effects

Tell the doctor within a week or two:

- Nervousness or restlessness
- Irritability—Dose may need to be lowered.
- Dry mouth—Have your child try using sugar-free gum or candy.
- Constipation—Encourage your child to drink more fluids and eat high-fiber foods; if necessary, the doctor may recommend a fiber medicine such as Benefiber or a stool softener such as Colace or mineral oil.
- Headache
- Decreased appetite and weight loss
- Nausea—Taking bupropion with food may help.
- Dizziness
- Excessive sweating

## Occasional Side Effects

Call the doctor within a day or two if your child experiences any of these side effects:

- Motor tics (fast, repeated movements), muscle twitches (jerking movements), or tremor (shaking)
- Trouble sleeping
- Ringing in the ears

## Less Common, but More Serious, Side Effects

Call the doctor *immediately*:

- Vomiting
- Seizures (fits, convulsions), especially if taking more than 400 mg/day or if drinking alcoholic beverages. This is less common with the longer-acting forms.
- Unusual excitement, decreased need for sleep, rapid speech

## Some Interactions With Other Medicines or Food

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Please note that the following are only the most likely interactions with food or other medicines.

Carbamazepine (Tegretol) may decrease the positive effect of bupropion.

It can be *very dangerous* to take bupropion at the same time as, or even within several weeks of, taking another type of medicine called a *monoamine oxidase inhibitor (MAOI)*, such as Eldepryl (selegiline), Nardil (phenelzine), Parnate (tranylcypromine), or Marplan (isocarboxazid). The combination may cause very high fever, high blood pressure, and extreme excitement and agitation.

Caffeine may increase side effects.

## What Could Happen if This Medicine Is Stopped Suddenly?

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No known medical withdrawal effects occur if bupropion is stopped suddenly. Some people may get a headache as the medicine wears off. If the medicine is stopped, the original problems may come back. Talk to the doctor before stopping the medicine.

## How Long Will This Medicine Be Needed?

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Bupropion may take up to 4 weeks to reach its full effect. Your child may need to take the medicine for at least several months so that the emotional or behavioral problem does not come back.

## What Else Should I Know About This Medicine?

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It is *very important* not to chew the sustained-release tablet or to double up doses if one is missed.

Store the medicine away from heat and wetness.

In youth who have bipolar disorder (manic depression) or who are at risk for bipolar disorder, any antidepressant medicine may increase the risk of hypomania or mania (excitement, agitation, increased activity, decreased sleep).

Bupropion is sometimes confused with buspirone. Be sure to check the prescription.

Sometimes the different forms of bupropion are confused. Be sure you know whether the doctor has prescribed the immediate-release, sustained-release, or extended-release form, and check that the pharmacy has dispensed the correct form of medicine. Be sure that the number of “mg” (dose) and the number of times the medicine is taken each day are clear and consistent.

## Black Box Antidepressant Warning

In 2004, an advisory committee to the FDA decided that there might be an increased risk of suicidal behavior for some youth taking medicines called *antidepressants*. In the research studies that the committee reviewed, about 3%–4% of youth with depression who took an antidepressant medicine—and 1%–2% of youth with depression who took a placebo (pill without active medicine)—talked about suicidal thoughts (thinking about killing themselves or wishing they were dead) or did something to harm themselves. This means that almost twice as many youth who were taking an antidepressant to treat their depression talked about suicide or had

suicidal behavior compared with youth with depression who were taking inactive medicine. There were *no* completed suicides in any of these research studies, which included more than 4,000 children and adolescents. For youth being treated for anxiety, there was no difference in suicidal talking or behavior between those taking antidepressant medication and those taking placebo.

The FDA told drug companies to add a *black box warning* label to all antidepressant medicines. Because of this label, a doctor (or advanced practice nurse) prescribing one of these medicines has to warn youth and their families that there might be more suicidal thoughts and actions in youth taking these medicines.

On the other hand, in places where more youth are taking the newer antidepressant medicines, the number of adolescents who commit suicide has gotten smaller. Also, thinking about or attempting suicide is more common in surveys of teenagers in the community than it is in depressed youth treated in research studies with antidepressant medicine.

If a youth is being treated with this medicine and is doing well, then no changes are needed as a result of this warning. Increased suicidal talk or action is most likely to happen in the first few months of treatment with a medicine. If your child has recently started this medicine, or is about to start, then you and your doctor (or advanced practice nurse) should watch for any changes in behavior. People who are depressed often have suicidal thoughts or actions. It is hard to know whether suicidal thoughts or actions in depressed people are caused by the depression itself or by the medicine. Also, as their depression is getting better, some people talk more about the suicidal thoughts they had before but did not talk about. As young people get better from depression, they might be at higher risk of doing something about suicidal thoughts that they have had for some time, because they have more energy.

## What Should a Parent Do?

1. Be honest with your child about possible risks and benefits of medicine.
2. Talk to your child about whether he or she is having any suicidal thoughts, and tell your child to come to you if he or she is having such thoughts.
3. You, your child, and your child's doctor or nurse should develop a safety plan. Pick adults whom your child can tell if he or she is thinking about suicide.
4. Be sure to tell your child's doctor, nurse, or therapist if you suspect that your child is using alcohol or drugs or if something has happened that might make your child feel worse, such as a family separation, breaking up with a boyfriend or girlfriend, someone close dying or attempting suicide, physical or sexual abuse, or failure in school.
5. Be sure that there are no guns in the home and that all medicines (including over-the-counter medicines like Tylenol) are closely supervised by an adult and kept in a safe place.
6. Watch for new or worse thoughts of suicide, self-harm, depression, anxiety (nerves), feeling very agitated or restless, being angry or aggressive, having more trouble sleeping, or anything else that you see for the first time, seems worse, or worries your child or you. If these appear, contact a mental health professional **right away**. Do not just stop or change the dose of the medicine on your own. If the problems are serious, and you cannot reach one of your clinicians, call a 24-hour psychiatry emergency telephone number or take your child to an emergency room.

Youth taking antidepressant medicine should be watched carefully by their parent(s), clinician(s) (doctor, nurse, therapist), and other concerned adults for the first weeks of treatment. It is a good idea to have a visit or telephone call with the doctor, nurse, or therapist weekly for the first month, every 2 weeks for the second month, and after that at least once a month to check for feelings of depression or sadness, thoughts of killing or harming himself or herself, and any problems with the medication. If you have questions, be sure to ask the doctor, nurse, or therapist.

For more information, see <http://www.parentsmedguide.org> (in English and Spanish).

