

Medication Information for Parents and Teachers

Imipramine—Tofranil

General Information About Medication

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

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.

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."

You may notice the following side effects at school:

Common Side Effects

- Dry mouth—Allow the student to chew sugar-free gum or to make extra trips to the water fountain.
- Constipation—Allow the student to drink more fluids or to use the bathroom more often.
- Daytime sleepiness—The student should not drive, ride a bicycle or motorcycle, or operate machinery.
- Dizziness (especially when standing up quickly)—This may happen in the classroom or during physical education). Suggest that the student stand up more slowly.
- Irritability

Occasional Side Effects

- Stuttering
- Increased risk of sunburn (this may be a problem if recess or physical education is outdoors in warm weather)—The student should wear sunscreen or protective clothing or stay out of the sun.

Less Common Side Effects

- Nausea—The student may need to take the medicine after a meal or snack.
- Trouble urinating—The student may need more time in the bathroom.
- Blurred vision—The student may have trouble seeing the blackboard.
- Motor tics (fast, repeated movements) or muscle twitches (jerking movements) of parts of the body
- Increased activity, rapid speech, feeling “speeded up,” being very excited or irritable (cranky)
- Skin rash

Rare, but Potentially Serious, Side Effects

Call the parents(s) or follow your school’s emergency procedures *immediately*:

- Seizure (fit, convulsion) **(This is a medical emergency.)**
- Very fast or irregular heartbeat **(This is a medical emergency.)**
- Fainting
- Hallucinations (hearing voices or seeing things that are not there)
- Inability to urinate
- Confusion
- Severe change in behavior

What Is Imipramine (Tofranil)?

Imipramine is called a *tricyclic antidepressant*. It was first used to treat depression but is now used to treat enuresis (bed-wetting), attention-deficit/hyperactivity disorder (ADHD), school phobia, separation anxiety, panic disorder, and some sleep disorders (such as night terrors). It comes in brand name Tofranil and generic tablets and Tofranil-PM sustained-release (long-acting) capsules.

How Can This Medicine Help?

Imipramine can decrease symptoms of ADHD, anxiety (nervousness), panic, and night terrors or sleepwalking. The medicine may take several weeks to work. Imipramine can also help control urination and decrease bed-wetting (nocturnal enuresis). When treating enuresis, the medicine works right away.

How Does This Medicine Work?

Tricyclic antidepressants affect *neurotransmitters*—the natural substances that are needed for certain parts of the brain to work normally. They increase the activity of *serotonin* and *norepinephrine* to more normal levels in the parts of the brain that regulate concentration, motivation, and mood. Science does not yet know how imipramine helps stop bed-wetting.

How Long Does This Medicine Last?

Although a dose lasts for a whole day in adults and older teenagers, in younger children several doses a day may be needed.

How Will the Doctor Monitor This Medicine?

The doctor will review your child's medical history and physical examination, paying special attention to pulse rate, blood pressure, weight, and height, before starting imipramine. These measurements will be taken when the dose is increased and occasionally as long as the medicine is continued. The doctor may order some blood or urine tests to be sure your child does not have a hidden medical condition that would make it unsafe to use this medicine.

Tricyclic antidepressants can slow the speed at which signals move through the heart. This effect is not dangerous if the heart is normal, which is why an ECG (electrocardiogram or heart rhythm test) is done before starting the medicine. The ECG may be repeated as the dose is increased and occasionally while the medicine is being taken. Changes in the heart from the medicine usually can be seen on the ECG before they become a problem, so your child's doctor will order an ECG every so often. When imipramine is used only at night in very low doses to treat bed-wetting, an ECG may not be needed.

To find possible hidden heart risks, it is especially important to tell the doctor if your child or anyone in the family has a history of fainting, palpitations, or irregular heartbeat or if anyone in the family died suddenly.

Be sure to tell the doctor if your child or anyone in the family has bipolar illness (manic-depressive illness) or has tried to kill himself or herself.

Because tricyclic antidepressants may increase the risk of seizures (fits, convulsions), the doctor will want to know whether your child has ever had a seizure or a head injury and if there is any family history of epilepsy. Your child's doctor may want to order an EEG (electroencephalogram or brain wave test) before starting the medicine.

Experts do not agree on whether blood tests are needed to measure the level of this medicine. Blood levels seem to be most useful when your doctor suspects that the dose of medicine is too high or too low. The most accurate level is obtained by drawing blood first thing in the morning after at least 5 days on the same dose, approximately 12 hours after the evening dose of medicine and before the morning dose.

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 imipramine 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 or order tests, such as an ECG or blood level.

Before using medicine and at times afterward, the doctor may ask your child to fill out a rating scale about anxiety, to help see how your child is doing.

What Side Effects Can This Medicine Have?

Any medicine can have side effects, including an allergy to the medicine. 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 (may be caused by an allergy to the medicine or to a dye in the specific brand of pill)

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:

- 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.
- Daytime sleepiness—Do not allow your child to drive, ride a bicycle or motorcycle, or operate machinery if this happens.
- Dizziness—This side effect is worse when the child stands up quickly, especially when getting out of bed in the morning; try having the child stand up slowly.
- Weight gain
- Loss of appetite and weight loss
- Irritability
- Acne

Occasional Side Effects

Tell the doctor within a week or two:

- Nightmares
- Stuttering
- Blurred vision

- Increase in breast size, nipple discharge, or both (in girls)
- Increase in breast size (in boys)

Less Common, but More Serious, Side Effects

Call the doctor within a day or two:

- High or low blood pressure
- Nausea
- Trouble urinating
- Motor tics (fast, repeated movements) or muscle twitches (jerking movements)
- Increased activity, rapid speech, feeling “speeded up,” decreased need for sleep, being very excited or irritable (cranky)

Rare, but Potentially Serious, Side Effects

Call the doctor *immediately*:

- Seizure (fit, convulsion)—**Go to an emergency room.**
- Very fast or irregular heartbeat—**Go to an emergency room.**
- Fainting
- Hallucinations (hearing voices or seeing things that are not there)
- Inability to urinate
- Confusion
- Severe change in behavior

Some Interactions With Other Medicines or Food

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

Check with your child’s doctor before giving your child decongestants or over-the-counter cold medicine.

Taking another antidepressant or Depakote with imipramine may increase the level of imipramine and increase side effects.

Taking carbamazepine (Tegretol) with imipramine may decrease the positive effects of imipramine and increase the side effects of carbamazepine.

It can be *very dangerous* to take imipramine at the same time as or even within a month of taking another type of medicine called a *monoamine oxidase inhibitor* (MAOI), such as Eldepryl (selegiline), Nardil (phenelzine), Parnate (tranylcypromine), or Marplan (isocarboxazid).

Caffeine may worsen side effects on the heart or symptoms of anxiety. It is best not to drink coffee, tea, or soft drinks with caffeine while taking this medicine.

What Could Happen if This Medicine Is Stopped Suddenly?

Stopping the medicine suddenly or skipping a dose is not dangerous but can be very uncomfortable. Your child may feel like he or she has the flu—with a headache, muscle aches, stomachache, and upset stomach. Behav-

ioral problems, sadness, nervousness, or trouble sleeping also may occur. If these feelings appear every day, the medicine may need to be given more often during each day.

How Long Will This Medicine Be Needed?

There is no way to know how long a person will need to take this medicine. Parents work together with the doctor to determine what is right for each child. For bed-wetting, the medicine may be used for 6–12 months and may be stopped if the child grows out of bed-wetting. When treating ADHD, the medicine may be needed for a longer time. Some people may need to take the medicine even as adults.

What Else Should I Know About This Medicine?

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).

An overdose by accident or on purpose with tricyclic antidepressants is very dangerous! You must closely supervise the medicine. You may have to lock up the medicine if your child or teenager is suicidal or if young children live in or visit your home.

Tricyclic antidepressants may cause dry mouth, which could increase the chance of tooth decay. Regular brushing of teeth and checkups with the dentist are especially important.

This medicine causes increased risk of sunburn. Be sure that your child wears sunscreen or protective clothing or stays out of the sun.

People who take tricyclic antidepressants must not drink alcohol or use tranquilizers. Severe sleepiness, loss of consciousness, or even death may result.

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 that 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 on 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).

Notes

Use this space to take notes or to write down questions you want to ask the doctor.

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From Dulcan MK (editor): *Helping Parents, Youth, and Teachers Understand Medications for Behavioral and Emotional Problems: A Resource Book of Medication Information Handouts*, Third Edition. Washington, DC, American Psychiatric Publishing, 2007