



Mixed amphetamine salts (Adderall XR®)



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Summary: Mixed amphetamine salts (Adderall XR®) belongs to a group of medications called stimulants. It is used to treat attention deficit/hyperactivity disorder (AD/HD).

What is mixed amphetamine salts used for?

Mixed amphetamine salts are used for treating AD/HD in children, youth and adults. It is used to improve the mental and behavioral symptoms of AD/HD, which includes short attention span, impulsive behaviour and hyperactivity.

Your doctor may be using this medication for another reason. If you are unclear why this medication is being prescribed, please ask your doctor.

How does mixed amphetamine salts work?

Mixed amphetamine salts work by increasing the activity of the brain chemicals (neurotransmitters) called dopamine, and to a lesser extent, norepinephrine. This medication activates areas of the brain that control impulsive actions, attention and body movements, thereby improving symptoms of AD/HD.

How should mixed amphetamine salts be taken?

Mixed amphetamine salts come in capsules that are taken by mouth. Your doctor will determine how much you should take, according to your own needs. If you are starting out taking mixed amphetamine salts, it should be taken everyday (7 days a week). This lets your body to get used to the medication, and helps to determine if and when the medication is working in different settings and as observed by different people.

Mixed amphetamine salts is a long-acting medication, and each dose lasts for 8 to 12 hours. Mixed amphetamine salts must be taken first thing in the morning. If you sleep late or forget to take it, do not take it later in the day as this may interfere with sleep. Mixed amphetamine salts capsules should be swallowed whole with liquids, and should never be crushed or chewed. The contents of each capsule may be sprinkled on soft foods including apple sauce, ice cream or yogurt. However, the medication beads must also be swallowed whole and not be chewed or

crushed.

Do not take mixed amphetamine salts with acidic fruit juices such as grapefruit or tomato juice, as it can decrease the amount of the medication absorbed by the body.

When will mixed amphetamine salts start working?

Your doctor will increase the dose of the medication slowly to find the dose that gives optimal benefit with minimal side effects. Some of the benefits of mixed amphetamine salts are noticeable within the first couple days of starting the medication. Symptoms will only improve when there is enough medication in the body. Once the medication wears off at the end of the day, symptoms of AD/HD can return. Your doctor will adjust the amount and timing of each dose according to your needs. For example, a dose may be timed so that there is enough medication in your body during key subjects in school (like math), times of day when you have the most difficulty, and transition periods (like recess or driving home). Adderall XR® (mixed amphetamine salts) is a medication in which about half is released in the morning, with the rest released later in the day. If your child is not showing a good symptom response in the morning, please inform your doctor.

How long do I have to take mixed amphetamine salts?

Different people take mixed amphetamine salts for different lengths of time. Whether or not you need medication should be reevaluated from time to time. Some people only require this medication during particular times of their life such as when they are in school, while some people continue to benefit from this medication for many years. Your doctor may suggest that you take a “drug holiday” from the medication for a month in the summer to see if you still need it, to optimize growth, and to minimize the body getting too used to the medication.

Is mixed amphetamine salts addictive?

When used properly as directed by your doctor, mixed amphetamine salts is not addictive. In general, people with AD/HD may be at an increased risk to abuse substances over the long run. By effectively treating AD/HD, patients may be less likely to abuse substances than those who do not take medications to help manage AD/HD.

What are the side effects of mixed amphetamine salts and what should I do if I get them?

You have been prescribed mixed amphetamine salts because your doctor has determined that the benefits of this medication are greater than the risks of you taking it. However, as with most medications, side effects may occur. These effects are usually more common when starting a medication or after a dose increase. Most side effects are mild and almost always decrease with time. It is also possible to experience a side effect that you feel is serious or long-lasting. If this occurs, speak to your doctor about ways to manage the side effects at your next appointment. Here are some of the more common side effects of taking this medicine. In brackets are suggested ways to lessen these effects.

Common side effects

If any of these side effects bother you or are a change from your usual pattern, please discuss them with your doctor, nurse or pharmacist. For more suggestions on managing common side effects, see our handout “Managing stimulant medication in children and adolescents”.

- Loss of appetite, weight loss (take the medication with breakfast, drink a smoothie or high protein drink or Boost at lunch, and have a major meal when the medication wears off)
- Trouble sleeping (try taking the daily dose at an earlier time; starting a bedtime routine; or try adding melatonin 3 – 6 mg taken 30 minutes before bedtime)
- Nausea, vomiting, stomach aches (this is often a sign of hunger, try eating something)
- Stuffy nose (try using a saline nasal spray)
- Fast heart rate (discuss this with your doctor)

- Irritability, agitation, energized feelings, nervousness (avoid caffeine from colas, coffee, or tea)
- Dry mouth (try increasing fluid intake; or chewing sugarless gum or sucking on hard sugar-free candies)
- Headaches (this usually decreases after using medication for 1-3 weeks. Try using a pain relieving medication such as acetaminophen (Tylenol®). This may also be a sign of hunger. Try eating or drinking.)

Potentially serious but uncommon side effects (uncommon side effects occurring in less than 5% of patients)

There are risks involved with taking any medication. Make sure you have had a conversation with your doctor about the potentially serious effects of mixed amphetamine salts.

Contact your doctor IMMEDIATELY if you have any of these potentially serious side effects:

- Skin rash
- Persistent head throbbing
- Psychiatric effects such as agitation; prolonged sadness; seeing, hearing, or feeling things that are not there, or other unusual changes in mood (discuss this with your doctor)
- Appearance or worsening of vocal or motor tics, such as shrugging, blinking, head turning, muscle twitches, and throat clearing
- Delay in growth (your doctor will monitor your growth and may adjust treatment as necessary.)

There have been concerns that mixed amphetamine salts may increase the risk for heart problems in children and adolescents. However, studies have shown that rates of sudden death (from a heart problem) are similar between children taking stimulant medications and those who did not take the medication. Nevertheless, this may be a concern for children with pre-existing heart conditions, heart defects, or who undergo strenuous exercise. Mixed amphetamine salts should be used with caution in patients who are at a higher risk for heart problems.

What precautions should my doctor and I be aware of when taking mixed amphetamine salts?

Several medications can interact with mixed amphetamine salts, including some cough and cold medications; antacids such as calcium carbonate (Tums®); monoamine oxidase inhibitors such as selegiline (Eldepryl®) or phenelzine (Nardil®); some antidepressants such as nortriptyline (Aventyl®), and several others. If you are (or begin) taking any other prescription or over-the-counter medications, be sure to check with your doctor or pharmacist to see if they are safe to use. Your doctor may need to change the doses of your medication(s) or monitor you carefully for side effects if you take certain other medications.

It is important to tell your doctor if you:

- have heart conditions or a family history of early heart disease or sudden death
- have structural heart defects or hardening of blood vessels (atherosclerosis)
- have an overactive thyroid
- have problems with fainting, dizziness, chest pain or irregular heart beat
- have high blood pressure
- have extreme exercise demands
- have a seizure disorder that is not well controlled
- have hallucinations (seeing or hearing things that are not there)
- have psychiatric conditions such as depression or bipolar disorder
- have glaucoma (an eye disease)
- use alcohol to excess or street drugs
- have allergies or bad reactions to mixed amphetamine salts or any other medications
- are currently pregnant (or plan to become pregnant) or are breast-feeding

What special instructions should I follow while using mixed amphetamine

salts?

- Keep all appointments with your doctor and the laboratory. Your doctor may order certain assessments and tests (for example: reports from teachers, AD/HD rating scales, height, weight, pulse, blood pressure, electrocardiogram (EKG)) to check how you are responding to mixed amphetamine salts.
- Do not allow anyone else to use your medication.

What should I do if I forget to take a dose of mixed amphetamine salts?

If you take mixed amphetamine salts regularly and you forget to take it, take it as soon as you remember. If it is more than 4 hours after your regularly scheduled dose, skip the missed dose and continue with your regular schedule the next day. Do NOT double your next dose.

What storage conditions are needed for mixed amphetamine salts?

- Store this medication at room temperature away from moisture and heat (e.g., not in the bathroom).
- Keep this medication out of reach and sight of children.

About this document

Special thanks to the Kelty Centre for Mental Health for permission to adapt this document. The original document was developed by health professionals of BC Mental Health and Addiction Services, and reviewed by the staff of the Kelty Mental Health Centre. French translation provided courtesy of the Ontario Centre of Excellence for Child and Youth Mental Health.

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