

Drug	Other Terms	How the Drug is Used	Negative Effects on the Body	How the Drug Works
Methylphenidate*	Ritalin	Taken orally in pill form, crushed up and snorted, or dissolved with water and injected	Suppresses the appetite, causes wakefulness, increased focus and attention, and euphoria	Prescribed for attention-deficit hyperactivity disorder (ADHD). Ritalin has been abused by people who don't need it because of its pleasurable initial effects. When abused, rather than taken as a prescription, the tablets are often crushed and either smoked or snorted.

*Several studies have shown that children who have ADHD and are treated with methylphenidate are less likely to abuse drugs and alcohol when they are older than those who were not, but more research needs to be done. Methylphenidate taken without a doctor's prescription can cause addiction and sometimes death.

This activity aligns with the following standard identified in the National Science Education Standards: science in personal and social perspectives. The students observe the effects that three drugs have on the brain and the nervous system. They discuss the impact this information has on their lives and how they can use it to make wise decisions about their own health.

Science at Home

Talk to your child about the different types of drugs and how they affect the brain and body. Have your child begin to think about the reasons people would abuse drugs when they know how harmful they can be.

It is very important to discuss with your child the differences between taking Ritalin for ADHD in the dose and method prescribed by a doctor and abusing Ritalin. Inform your child that Ritalin will increase the attention and focus in people with ADHD, while it can cause serious side effects and addiction in those who inappropriately use it. Research has shown that people with ADHD do not develop addiction to Ritalin when used in the form and amount prescribed.

Additional Resources

National Institute on Drug Abuse (NIDA) — www.drugabuse.gov
301-443-1124

This Web site contains information about drug abuse and a section designed specifically for parents, teachers, and students. Publications and other materials are available free of charge.

National Institute on Drug Abuse (NIDA): Mind Over Matter — www.nida.nih.gov/MOM/TG/MOMTG-index.html

This Web site was developed to educate children about the biological effects of drug abuse on the brain and body.

National Clearinghouse for Alcohol and Drug Information (NCADI) — www.health.org
1-800-729-6686

NCADI is the world's largest resource for information and materials concerning substance abuse. Many free publications are available here.