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## Q: What is marijuana? Are there different kinds?

A: Marijuana is a green, brown, or gray mixture of dried, shredded leaves, stems, seeds, and flowers of the hemp plant. You may hear marijuana called by street names such as pot, herb, weed, grass, boom, Mary Jane, gangster, or chronic. There are more than 200 slang terms for marijuana.

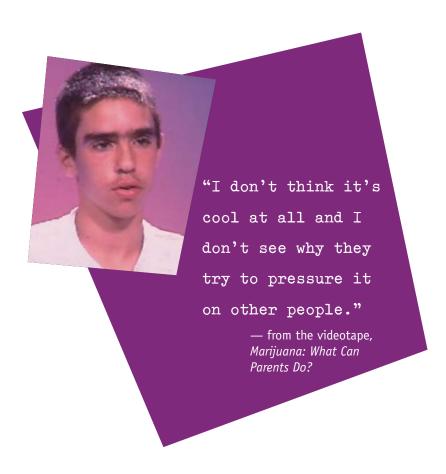
Sinsemilla (sin-seh-me-yah; it's a Spanish word), hashish ("hash" for short), and hash oil are stronger forms of marijuana.

All forms of marijuana are mind-altering (psychoactive). In other words, they change how the brain works. They all contain THC (delta-9-tetrahydrocannabinol), the main active chemical in marijuana. They also contain more than 400 other chemicals. Marijuana's effects on the user depend on its strength or potency, which is related to the amount of THC it contains. The THC content of marijuana has been increasing since the 1970s. For the year 2006, most marijuana contained, on average,



# marijuana fact:

Most teenagers do
not use marijuana.
Fewer than one in
five high school
seniors is a current
marijuana user.



#### Q: How is marijuana used?

A: Most users roll loose marijuana into a cigarette (called a joint or a nail) or smoke it in a pipe or a water pipe, sometimes referred to as a bong. Some users mix marijuana into foods or use it to brew a tea. Another method is to slice open a cigar and replace the tobacco with marijuana, making what's called a blunt. Marijuana cigarettes or blunts sometimes contain other substances as well including crack cocaine.

## Q: How long does marijuana stay in the user's body?

A: THC in marijuana is rapidly absorbed by fatty tissues in various organs. Generally, traces (metabolites) of THC can be detected by standard urine testing methods several days after a smoking session. In heavy users, however, traces can sometimes be detected for weeks after they have stopped using marijuana.

#### Q: How many teens smoke marijuana?

A: Contrary to popular belief, most teenagers do not use marijuana. Among students surveyed in a yearly national survey, only about one in seven 10th graders report they are current marijuana users (that is, used marijuana within the past month). Fewer than one in five high school seniors is a current marijuana user.

#### Q: Why do young people use marijuana?

A: There are many reasons why some children and young teens start smoking marijuana. Many young people smoke marijuana because they see their brothers, sisters, friends, or even older family members using it. Some use marijuana because of peer pressure.

Others may think it's cool to use marijuana because they hear songs about it and see it on TV and in movies. Some

teens may feel they need marijuana and other drugs to help them escape from problems at home, at school, or with friends.

No matter how many shirts and caps you see printed with the marijuana leaf, or how many groups sing about it, remember this: You don't have to use marijuana just because you think everybody else is doing it. Most teenagers do not use marijuana.

#### Q: What happens if you smoke marijuana?

- A: The way the drug affects each person depends on many factors, including:
  - user's previous experience with the drug;
  - how strong the marijuana is (how much THC it has);
  - what the user expects to happen;
  - where the drug is used;
  - how it is taken; and
  - whether the user is drinking alcohol or using other drugs.

Some people feel nothing at all when they smoke marijuana. Others may feel relaxed or high. Sometimes marijuana makes users feel thirsty and very hungry—an effect called "the munchies."

Some users can suffer bad reactions from abusing marijuana. They may experience sudden feelings of anxiety and paranoid thoughts. This is more likely to happen when a more potent variety of marijuana is used.

# marijuana fact:

Marijuana can mess up your performance in school, sports, and other parts of your life.

## Q: What are the short-term effects of marijuana use?

A: The short-term effects of marijuana include:

- problems with memory and learning;
- distorted perception (sights, sounds, time, touch);
- trouble with thinking and problemsolving;
- loss of motor coordination; and
- increased heart rate.



"I used to be real athletic.
When I started using drugs, I just stopped playing all together 'cause I thought I had more important things to do."

— from the videotape, Marijuana: What Can Parents Do? Effects can be unpredictable, especially when other drugs are mixed with marijuana.

## Q: Does marijuana affect school, sports, or other activities?

A: It can. Marijuana affects memory, judgment, and perception. The drug can make you mess up in school, in sports or clubs, or with your friends. If you're high on marijuana, you are more likely to make mistakes that could embarrass or even hurt you. If you use marijuana a lot, you could start to lose interest in how you look and how you're getting along at school or work.

Athletes could find their performance is off; timing, movements, and coordination are all affected by THC. Also, since marijuana can affect judgment and decisionmaking, its use can lead to risky sexual behavior, resulting in exposure to sexually transmitted diseases like HIV, the virus that causes AIDS.

## Q: What are the long-term effects of marijuana use?

- A: Findings so far show that regular use of marijuana may play a role in some kinds of cancer and in problems with the respiratory and immune systems.
  - Cancer—It's hard to know for sure whether marijuana use alone causes cancer, because many people who smoke marijuana also smoke cigarettes and use other drugs. But it is

known that marijuana smoke contains some of the same, and sometimes even more, of the cancer-causing chemicals found in tobacco smoke. Studies show that someone who smokes five joints per day may be taking in as many cancer-causing chemicals as someone who smokes a full pack of cigarettes every day.

- Lungs and airways—People who smoke marijuana often develop the same kinds of breathing problems that cigarette smokers have: coughing and wheezing. They tend to have more chest colds than nonusers. They are also at greater risk of getting lung infections like pneumonia.
- Immune system—Our immune system protects the body from many agents that cause disease. It is not certain whether marijuana damages the immune system of people, but both animal and human studies have shown that marijuana impairs the ability of T-cells in the lungs' immune system to fight off some infections.

# Q: Does marijuana lead to the use of other drugs?

A: Long-term studies of high school students and their patterns of drug use show that very few young people use other illegal drugs without first trying marijuana. For example, the risk of using cocaine is much greater for those who have tried marijuana than for those who have never tried it. Using marijuana puts children and teens in contact

with people who are users and sellers of other drugs. So there is more of a risk that a marijuana user will be exposed to and urged to try more drugs.

To better determine this risk, scientists are examining the possibility that long-term marijuana use may create changes in the brain that make a person more at risk of becoming addicted to other drugs, such as alcohol or cocaine. Although many young people who use marijuana do not go on to use other drugs, further research is needed to determine who will be at greatest risk.

## Q: How can you tell if someone has been using marijuana?

- A: If someone is high on marijuana, he or she might
  - seem dizzy and have trouble walking;
  - seem silly and giggly for no reason;
  - have very red, bloodshot eyes; and
  - have a hard time remembering things that just happened.

When the early effects fade, over a few hours, the user can become very sleepy.

### Q: Is marijuana sometimes used as a medicine?

A: There has been much talk about the possible medical use of marijuana. Under U.S. law since 1970, marijuana has been a Schedule I controlled substance. This means that the drug, at

least in its smoked form, has no commonly accepted medical use.

THC, the active chemical in marijuana, is manufactured into a pill available by prescription that can be used to treat the nausea and vomiting that occur with certain cancer treatments and to help AIDS patients eat more to keep up their weight. Scientists are studying whether THC, and related chemicals in marijuana (called cannabinoids) may have other medical uses. Because of the adverse effects of smoking marijuana, research on other cannabinoids appears more promising for the development of new medications.

#### Q: How does marijuana affect driving?

A: Marijuana affects many skills required for safe driving: alertness, concentration, coordination, and reaction time.

Marijuana use can make it difficult to judge distances and react to signals and sounds on the road.

Marijuana may play a role in motor vehicle crashes. In one study conducted in Memphis, TN, researchers found that, of 150 reckless drivers who were tested for drugs at the arrest scene, 33 percent tested positive for marijuana, and 12 percent tested positive for both marijuana and cocaine. Data have also shown that while smoking marijuana, people show the same lack of coordination on standard "drunk driver" tests as do people who have had too much to drink.

# mari<mark>juana</mark> fact

Marijuana and driving do not mix. Users often have delayed responses to sights and sounds drivers need to notice.

## Q: If a woman is pregnant and smokes marijuana, will it hurt the baby?

A: Doctors advise pregnant women not to use any drugs because they could harm the growing fetus. Although one animal study linked marijuana use to loss of the fetus very early in pregnancy, two studies in humans found no association between marijuana use and early pregnancy loss. More research is necessary to fully understand the effects of marijuana use on pregnancy outcomes.

Studies in children born to mothers who use marijuana have shown increased behavioral problems during infancy and preschool years. In school, these children are more likely to have problems with decisionmaking, memory, and the ability to remain attentive.

Researchers are not certain whether health problems that may be caused by early exposure to marijuana will remain as the child grows into adulthood. However, since some parts of the brain continue to develop throughout adolescence, it is also possible that certain kinds of problems may appear as the child matures.



"When I would sit down and try to figure something out it was like my brain would stop working."

> — from the videotape, Marijuana: What Can Parents Do?

#### Q: What does marijuana do to the brain?

A: Some studies show that when people have smoked large amounts of marijuana for years, the drug takes its toll on mental functions. Heavy or daily use of marijuana affects the parts of the brain that control memory, attention, and learning. A working short-term memory is needed to learn and perform tasks that call for more than one or two steps.

Smoking marijuana causes some changes in the brain that are like those caused by cocaine, heroin, and alcohol. Scientists are still learning about the many ways that marijuana can affect the brain.

## Q: Can people become addicted to marijuana?

A: Yes. Long-term marijuana use leads to addiction in some people. That is, they cannot control their urges to seek out and use marijuana, even though it negatively affects their family relationships, school performance, and recreational activities.

According to one study, marijuana use by teenagers who have prior antisocial problems can quickly lead to addiction. In addition, some frequent, heavy marijuana users develop "tolerance" to its effects. This means they need larger and larger amounts of marijuana to get the same desired effects as they used to get from smaller amounts.

# Q: What if a person wants to quit using the drug?

A: In 2004, over 298,000 people entering drug treatment programs reported marijuana as their primary drug of abuse. However, up until a few years ago, it was hard to find treatment programs specifically for marijuana users.

Now researchers are testing different ways to help marijuana users abstain from drug use. There are currently no medications for treating marijuana addiction. Treatment programs focus on counseling and group support systems. There are also a number of programs designed especially to help teenagers who are abusers. Family doctors can be a good source for information and help when dealing with marijuana problems.

For more information on marijuana and other drugs, visit the National Institute on Drug Abuse Web site at www.drugabuse.gov, www.marijuana-info.org, or www.teens.drugabuse.gov and/or contact: National Clearinghouse for Alcohol and Drug Information P.O. Box 2345 Rockville, MD 20847 1-800-729-6686 (The TDD number is 1-800-487-4889.) This publication may be

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