# marijuana: facts

Revised

national institute on drug abuse national institutes of health

#### Contents...

What is marijuana?	2
How is marijuana used?	4
How long does marijuana stay in the user's body?	5
How many teens smoke marijuana?	5
Why do young people use marijuana?	5
What happens if you smoke marijuana?	6
What are the short-term effects of marijuana use?	8
Does marijuana affect school, sports, or other activities?	9
What are the long-term effects of marijuana use?	9
Does marijuana lead to the use of other drugs?	10
How can you tell if someone has been using marijuana?	11
Is marijuana sometimes used as a medicine?	11
How does marijuana affect driving?	12
If a woman is pregnant and smokes marijuana, will it hurt the baby?	12
What does marijuana do to the brain?	14
Can people become addicted to marijuana?	14
What if a person wants to quit using the drug?	16

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. 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 it's strength or potency, which is related to the amount of THC it contains. The THC content of marijuana has been increasing since the 1970s.



## marijuana fact:

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



Parents Do?

#### Q: How is marijuana used?

A: Marijuana is usually smoked as a cigarette (called a joint or a nail) or in a pipe or a bong. Recently, it has appeared in cigars called blunts.

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

A: THC in marijuana is strongly 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. However, in chronic heavy users, 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 five 10th graders report they are current marijuana users (that is, used marijuana within the past month). Fewer than one in four high school seniors is a current marijuana user.

#### Q: Why do young people smoke 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 place) 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 get bad effects from marijuana. They may suffer sudden feelings of anxiety and have 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?

These effects are even greater when other drugs are mixed with the marijuana; and users do not always know what drugs are given to them.

#### 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 stupid 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?

Findings so far show that regular use of marijuana or THC 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 regular marijuana use causes cancer. But it is known that marijuana contains

some of the same, and sometimes even more, of the cancercausing 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—Animal studies have found that THC can damage the cells and tissues in the body that help protect against disease. When the immune cells are weakened, you are more likely to get sick.

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

A: It could. 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. Further research is needed to predict 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. According to scientists, more research needs to be done on THC's side effects and other potential medical uses.

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

A: Marijuana has serious harmful effects on the skills required to drive safely: alertness, the ability to concentrate, coordination, and the ability to react quickly. Marijuana use can make it difficult to judge distances and react to signals and sounds on the road.

> Marijuana may play a role in car accidents. 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.

## 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. One animal study has linked marijuana use to loss of the fetus very early in pregnancy.

## mari<mark>juana</mark> fact

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

Other 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.

#### 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.



"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: Can people become addicted to marijuana?

A: Yes. Long-term marijuana use can lead 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 2001, over 255,000 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 docters can be a good source for information and help in dealing with adolescent marijuana problems.

For more information on marijuana and other drugs, visit the National Institute on Drug Abuse Web site at http://www.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 1-800-487-4899.)

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