

DOCUMENT RESUME

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HE 024 969

TITLE Infusing Alcohol and Drug Prevention with Existing Classroom Study Units: Miscellaneous.

INSTITUTION Valencia Community Coll., Orlando, Fla.

SPONS AGENCY Orange County Public Schools, Orlando, Fla.

PUB DATE Jul 91

NOTE 110p.; This report is part of a collection of programs, policies and curricula developed by members of the Network on Colleges and Universities Committed to the Elimination of Drug and Alcohol Education, Office of Educational Research and Improvement in response to the 1989 Drug Free Schools and Communities Act. For related documents, see HE 024 963-969.

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ABSTRACT

This curriculum module, one of seven developed by the "Infusion Project," offers information and miscellaneous lessons on drug use prevention for integration into an existing seventh-grade middle school curriculum. The module, based on a type of interactive learning called infusion learning contains seven lessons each providing objectives, a list of resource materials, suggested student activities, suggestions for additional classroom or out-of-class activities and teacher tips. Many lessons come with one or more work sheets for reproduction. The lesson topics cover: art/art history, home economics/parenting, physical education (inclement weather activity), technology education (toxic fumes) and typing/proofreading. Also included is "Just the Facts," a set of information units for teachers on alcohol, amphetamines, barbiturates, children of alcoholics, cocaine, designer drugs, driving under the influence, eating disorders, inhalants, lysergic acid diethylamide, marijuana, nutrition, opiates, phencyclidine (PCP), steroids and tobacco. There is also a general brochure which introduces the program. (JB)

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ED337125

INFUSION
PROJECT
Preventing Alcohol & Drug Use

INFUSING ALCOHOL AND DRUG PREVENTION
WITH EXISTING CLASSROOM STUDY UNITS

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The ERIC Clearinghouse on Higher Education has been given federal funds to process a special collection of policy, program and curriculum documents produced by the Network of Colleges and Universities Committed to the Elimination of Drug and Alcohol Abuse, a coalition of institutions initiated by the Department of Education, Office of Educational Research and Improvement in response to the 1989 Drug Free Schools and Communities Act.

Major objectives of the project are to:

- increase access to the information on programs, policies, and curricula developed by Network member institutions;
- encourage the use of the ERIC system by Network member institutions;
- improve the Network's ability to know about, and share information on activities at member institutions; and
- test a model for collaboration with ERIC that other national agencies might adopt.

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VALENCIA
Community College

July 2, 1991

Valencia Community College is pleased to be distributing the curriculum infusion modules to you. The modules were produced as a result of a Drug-Free Schools and Communities Training and Demonstration grant in cooperation with the Orange County School system.

One of the key elements of the successful implementation of the modules during the piloting phase of this project was the intensive alcohol and other drug abuse prevention training that was provided to the participating middle school teachers. This training was also a model for the teachers in identifying interactive learning techniques and in implementing these techniques in the classroom. The teacher's guide, located on the inside flap of each notebook, will offer additional information on interactive learning. It is optimal for the teacher to perceive their role as a facilitator, as opposed to a lecturer, with this curriculum.

If you have any questions regarding the project or the workshop, please contact me as follows.

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Thank you for your interest in Project Infusion. Your opinions and feedback are welcomed.

Note: The modules must have been obtained directly from Valencia Community College. Permission is hereby granted to make unlimited copies of these materials to individuals within your school district. The materials may not be distributed to any other school district or agency without our permission.

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SUBJECT OBJECTIVE

Students will describe the lives of famous artists in history.

PREVENTION OBJECTIVE

Students will develop awareness of the problems caused by alcohol and other drug use.

Materials/Resources:

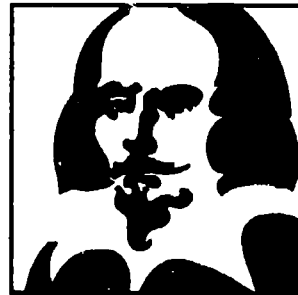
1. Arts & Man Magazines (Scholastic), Encyclopedias and reference books.
2. Student Worksheet: "What a Loss to Society"

Procedures/Activities:

1. Students choose a famous artist whose life was shortened by an alcohol and/or drug problem.
2. Students will research this individual and prepare a short report to share with the class.
3. Conduct class discussion about the loss to society caused by addiction.
4. Estimate the economic loss in dollars as well as the loss of the aesthetic product.
5. Try to predict what the artist might have done if he had lived longer.

Extension Activities:

Students could also report on recovering addicts and alcoholics such as Johnny Cash, Quincy Jones, etc.



Grade level

7

Teacher Tips:

Critical thinking will facilitate prevention infusion. Suggested questions: What did I learn?, How did the research information make me feel? What will I try to change? What can I start doing or stop doing as a result?

Artists as a group should be taken to include all the arts, such as music, drama, literature and dance.

A R T • A R T H I S T O R Y

STUDENT WORKSHEET

What a loss to society...

Choose a famous artist whose life was shortened because of substance abuse. Write a one-page report describing this person.

This person may be/have been famous for any of the following contributions to society: artwork, music, drama, literature, dance, etc.

Some suggestions to choose from include: James Dean, Janis Joplin, Jackson Pollack, Toulouse-Lautrec, Ernest Hemingway, William Blake, Jimi Hendrix, Mama Cass, Andy Gibb, John Belushi, F.Scott Fitzgerald, Elvis Presley, Marilyn Monroe, etc.

SUBJECT OBJECTIVE

Students will learn the 12 steps of parenting.

PREVENTION OBJECTIVE

Students will become aware of how a strong family unit can help prevent the use of alcohol and other drugs.

Materials/Resources:

1. Student group handout/transparency: "The 12 Steps of Parenting"
2. Student Worksheet: "The 12 Steps of Parenting Word Search"
2. Student Worksheet: Complete the sentences.



Grade level
7

Procedures/Activities:

1. Present the Parenting Steps.
2. Give students adequate time to read and then discuss in small groups or as a class.
3. **Emphasize that strong family units can help to prevent alcohol and drug use.**
4. Students complete worksheet.
5. Discuss student answers.

Teacher Tips:

Critical thinking will facilitate prevention infusion. Suggested questions: What did I learn about parenting? How do I feel about becoming a parent? What can I change or start doing as a result of this activity? How will my community be affected if this information could be shared?

STUDENT HANDOUT

The 12 Steps of Parenting

1. Always make an effort to show your children how much you care.
2. Maintain a positive mental attitude about your ability to be a parent. Trust your instincts and know where you stand.
3. Teach your children the importance of values while they are young. Do not wait until your children come home intoxicated to tell them you will not accept drunkenness.
4. Do not rely on the police or your children's school to be parents. They are unable to care the way you do.
5. Set clear rules and limits for your children. Most do not have the ability to set rules and limits for themselves.
6. Maintain your own supportive relationships. Your children cannot meet your emotional needs, nor can they establish parent-child boundaries.
7. Make sure that your home is a safe, secure and positive environment. This includes appropriate privacy for each family member.
8. Follow through with consequences for your children's misbehavior. Make sure the consequences are immediate and relate to the misbehavior, not your anger.
9. Do not prevent the natural consequences your children receive for misbehavior outside of the home. They will learn quickly if you let them.
10. Guide your children through life. They will often need help with homework, social situations, future plans, and complex feelings. Never give up trying to direct and redirect their energies.
11. Do not accept responsibility for your children's feelings or the outcome of their decisions. When your children succeed or do poorly it is their reward or consequence, not yours.
12. Your role as a parent is to provide a foundation for a life to be built, and that foundation is strongest with love, direction, and respect. Remember that your children are not less than and no greater than you.

STUDENT WORKSHEET

The 12 Steps of Parenting - Word Search

A. Locate 17 words that deal with parenting.

R	O	P	R	I	V	A	C	Y	A	M	P	U	F	O	R	E
D	V	C	D	A	M	O	T	L	B	I	F	P	I	O	N	D
E	E	T	C	U	V	M	K	I	D	W	L	O	V	E	T	I
C	L	A	E	L	O	N	E	B	A	Y	X	S	Q	I	L	U
I	R	Y	A	W	S	L	E	D	I	C	Q	I	K	A	I	G
E	J	I	H	G	A	E	F	T	I	S	R	T	L	T	V	O
I	U	L	M	N	F	O	C	R	Q	A	P	I	B	L	D	I
W	V	A	L	U	E	S	E	U	T	S	T	V	D	I	E	O
H	D	T	U	J	I	R	A	M	R	S	P	E	C	V	C	M
O	R	D	E	G	G	U	R	P	G	E	L	M	I	T	I	S
D	I	R	E	C	T	I	O	N	A	N	I	T	E	I	S	L
P	T	U	D	U	N	T	I	D	A	N	R	V	O	L	I	Q
O	O	L	O	D	T	L	V	O	D	O	C	H	I	M	O	N
T	R	E	S	P	E	C	T	A	P	D	E	S	I	T	N	D
L	U	S	S	E	R	S	E	P	A	T	S	T	I	F	S	O
I	K	N	F	C	E	P	U	T	O	R	S	E	T	S	A	W
P	H	I	L	D	O	S	P	A	T	T	I	T	U	D	E	T

ATTITUDE
 POSITIVE
 MEDIATE
 GUIDE
 RESPECT
 DIRECTION

DECISIONS
 LIMITS
 SAFE
 PRIVACY
 RULES
 SUPPORTIVE

CARE
 LOVE
 FEELINGS
 SECURE
 VALUES

Teacher Key to Word Search

		P	R	I	V	A	C	Y									E
												P					D
			C			M						L	O	V	E		I
		A				E						S					U
	R				S		D					I					G
E					A	E			I			T					
					F	C			A			I					D
		V	A	L	U	E	S		U			T	V				E
											R	S		E		V	C
											G	E			I		I
		D	I	R	E	C	T	I	O	N				T			S
			U										R				I
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		R	E	S	P	E	C	T		P					I		N
			S		E					P					T		S
					F				U						S		
								S		A		T	T	I	T	U	D
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STUDENT WORKSHEET

B. Complete the sentences:

1. Children need to learn the importance of _____ while they are young.
2. A home should be _____, _____, and have a _____ environment.
3. Consequences for misbehavior should be _____.
4. Parents should _____ their children through life.
5. Three things that make the foundation for life strong include: _____, _____, and _____.
6. Parents should set clear _____ and _____.
7. Appropriate _____ for each family member is part of a safe, secure and positive environment.
8. Parents should not accept responsibility for their child's _____ or outcome of their _____.
9. Always make an effort to show your children how much you _____.
10. Parents need to maintain their own _____ supportive relationships.
11. A positive mental _____ about your parenting ability is important.

C. Write a paragraph discussing how a strong family unit can help in the prevention of alcohol and other drug use.

Teacher Key

1. Children need to learn the importance of ___VALUES___ while they are young.
2. A home should be ___SAFE___, ___SECURE___, and have a ___POSITIVE___ environment.
3. Consequences for misbehavior should be ___IMMEDIATE___.
4. Parents should ___GUIDE___ their children through life.
5. Three things that make the foundation for life strong include: ___LOVE___, ___DIRECTION___, ___RESPECT___.
6. Parents should set clear ___RULES___ and ___LIMITS___.
7. Appropriate ___PRIVACY___ for each family member is part of a safe, secure and positive environment.
8. Parents should not accept responsibility for their child's ___FEELINGS___ or the outcome of their ___DECISIONS___.
9. Always make an effort to show your children how much you ___CARE___.
10. Parents need to maintain their own ___SUPPORTIVE___ relationships.
11. A positive mental ___ATTITUDE___ about your parenting ability is important.

SUBJECT OBJECTIVE

Students will develop hand-eye coordination.

PREVENTION OBJECTIVE

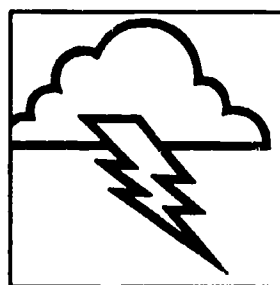
Students will gain awareness of the dangers of impaired vision due to use of alcohol and other drugs.

Materials/Resources:

1. Room that can be made dark
2. Dark nerf ball and volleyball net (for Locker Room Volleyball)

Procedures/Activities:

1. Conduct discussion with students to determine why vision is so important in Physical Education activities. List responses on the chalkboard.
2. Brainstorm how impaired vision would affect physical skills. List responses on the board.
3. Discuss that alcohol and other drug use can impair vision.
4. Set up to play Locker Room Volleyball. Turn lights down so that playing area is almost completely dark. This activity illustrates how drug use may affect night vision.
5. After game(s) discuss how impaired vision affected physical skills.
6. Relate student responses to other activities such as riding a bicycle or driving.



Grade level

7

Teacher Tips:

Critical thinking will facilitate prevention infusion. Suggested questions: What did I learn about impaired vision and drug use? How do I feel when I'm with someone whose vision is impaired because of drugs? What can I change from now on?

Remind students to stay seated during the activity.

SUBJECT OBJECTIVE

Students will become aware of deceptive techniques used in visual advertising directed at adolescents.

PREVENTION OBJECTIVE

Students will recognize and identify deceptive advertising techniques used to sell tobacco, alcohol, and other drugs and develop ways of resisting them.

Materials/Resources:

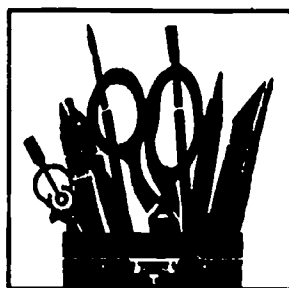
1. Student handout: "Ten Deceptive Advertising Techniques"
2. Student worksheet: "Discussion Questions"
3. Scissors
4. Collection of old magazines and newspapers for finding ads

Procedures/Activities:

1. Review the handout "Ten Deceptive Advertising Techniques."
2. Divide students into groups of 4-5.
3. Groups find advertisements in magazines and newspapers about alcoholic beverages, tobacco products and over-the-counter drugs.
4. Students in each group will contribute reasons and come to consensus regarding which deceptive technique is being used to sell drugs.
5. Groups will discuss strategies to keep from being influenced by the deceptive techniques used.
6. Groups will each write a paragraph describing one of the ads discussed, the technique used, and explanation of how they can keep from being influenced by deceptive advertising.

Extension Activities:

1. At home: students videotape television ads about over-the-counter drugs and alcoholic beverages. Share with class, along with explanation of deceptive technique used and how to keep from being influenced.
2. Groups design anti-smoking, anti-drinking, etc. ad campaign for their school. Include ideas for slogans and poster, button, and flyer logos/designs. Class chooses best group idea and produces the art work and carries out school-wide campaign.



Grade
level

7

Teacher Tips:

Critical thinking will facilitate prevention infusion. Suggested questions:
What did I learn that surprised me?
How did the tactics of deceptive advertising make me feel? What will I change as a result of this activity?

Make group folders containing identical advertisements for groups for compare/contrast class discussion.

Emphasize that wine coolers are alcoholic beverages.

Student Handout**Ten Deceptive Advertising Techniques**

People who want others to believe as they do often use many techniques to persuade them to agree. Here are some of the techniques most often used:

1. **Bandwagon:** the idea that "everybody" is doing something or believes something.
2. **Party Appeal:** gives the message that if you do something or use a particular product, you'll have a good time.
3. **Strawperson:** distorting or exaggerating someone's ideas or beliefs to make their own seem better or best.
4. **Status:** shows that if you "do what I do" or use this product, you will be successful.
5. **Testimonial:** quoting a famous person or someone "in authority" to support one's own viewpoint.
6. **Independence:** ads using this technique feature people with confidence, thus giving the message that the product promotes independence and confidence.
7. **Scare Tactics:** "scares" others by suggesting that if you don't do certain things or believe a particular way then something is wrong with you.
8. **Sex appeal:** pushes the theme that you will find love and romance though the use of certain products/beliefs.
9. **Generalization:** the use of statistics and facts which infer your point of view.
10. **Slanting:** persuading others by exaggerated language or "blaming" instead of using reason.

Student Worksheet

DISCUSSION QUESTIONS

1. Which deceptive technique is being used?
2. What are some of your reasons for choosing this technique?
3. How can people avoid being negatively influenced by ads?
4. Write a short paragraph about how advertisements are used to influence young people in particular. Discuss ways to deal with deceptive advertising.

SUBJECT OBJECTIVE

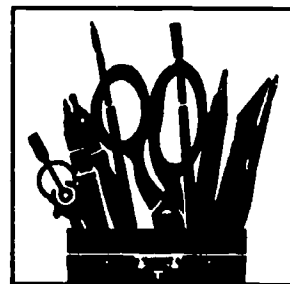
Students will develop compositions containing both functional (informational) aspects and visually appealing aspects.

PREVENTION OBJECTIVE

Students will recognize the availability of assistance for themselves or someone they care about regarding problem drinking and alcoholism.

Materials/Resources:

1. Background Information for Teacher Student Handout: "Addresses for Alcoholics Anonymous, Al-Anon, and Alateen"
2. Student Handout: "Problem Drinkers and Alcoholics"
3. Miscellaneous art supplies for producing posters



Grade level
7

Procedures/Activities:

1. Students use Problem Drinkers and Alcoholics hand out to determine which information will be included in their design.
2. Groups of 4-5 brainstorm strategies to successfully inform others about problem drinking or alcoholism.
3. Students use best ideas to create visually appealing and informative posters, listing addresses for Alcoholics Anonymous, Al-Anon, and Alateen.

Teacher Tips:

Critical thinking will facilitate prevention infusion. Suggested questions: What did I learn? How did the information in the brochures surprise me? How did it make me feel? What can I start to do differently as a result?

Early in the project or beforehand, students could write to the addresses listed, making use of responses while designs are still being produced.

Use the local telephone books to contact chemical dependency treatment facilities within the community for brochures and information.

Extension Activities:

Use any brochures sent to class by Alcoholics Anonymous and other groups as a springboard for discussion about graphic design as well as communicating messages about help for alcoholics.

A R T

**Background Information for Teacher and/or
Student Handout**

ADDRESSES

**Alcoholics Anonymous (AA)
P.O. 459, Grand Central Station
New York, NY 10010**

**Alanon Family Groups (and Alateen)
115 East 23 St.
New York, NY 10010**

**National Clearinghouse for Alcohol Information
Box 2345
Rockville, MD 20852**

**National Council on Alcoholism, Inc.
733 3rd Ave.
New York, NY 10017**

A R T

Student Handout

Problem Drinkers and Alcoholics

Problem Drinkers

- often drink to the point and/or with the purpose of losing control
- use alcohol as a crutch to escape personal problems and relieve stress
- drink to be able to relate to other people
- are physically able to stop drinking when they choose to, but sometimes continue to do so even when their drinking is clearly harming such things as their health, education, work, their families and friendships
- don't feel content or seem to stay happy without drinking.

Alcoholics

- usually can't function or get through the day without a drink
- have to drink greater amounts over time to feel the same effects
- have occasional blackouts - can't remember the next day what they said and did while drinking (including driving vehicles and other similar dangers)
- often have unexplained cuts, bruises and other accidents
- often drink first thing in the morning
- show striking changes in temperament/disposition when they drink
- usually can't take even one drink without continuing to the point where they lose control and get drunk
- often lie to themselves about how much they have been drinking
- often attempt to hide the amount they're drinking from employers, family and friends.

SUBJECT OBJECTIVE

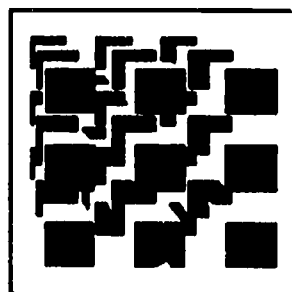
Students will be made aware of the dangers of toxic fumes and know proper techniques when using chemicals in the laboratory.

PREVENTION OBJECTIVE

Students will become aware of the dangers of inhaling many chemicals, including household products.

Materials/Resources:

1. Student handout: "Just the Facts: Inhalants"
2. Student Worksheet: "Questions about Inhalants"
3. Background Information for Teachers: "Just the Facts...Inhalants"
4. Household and laboratory chemicals (for demonstrating proper use of the product and label reading)



Grade level

7

Procedures/Activities:

1. Students read the handout and complete the worksheet.
2. Conduct class discussion, using worksheet for lead-in questions.
3. Incorporate specific hazards/cautions within your own Lab, using sample household and laboratory chemicals.

Teacher Tips:

Critical thinking will facilitate prevention infusion. Suggested questions: What did I learn? What surprised me about this information. How did the activity make me feel? How could I change something as a result of this lesson?

"Just the Facts...Inhalants" is for teacher use only. It gives too detailed an account of how to use inhalants and should not be read by students.

Be sure that sample household and laboratory chemicals are ones that students will be using in the lab.

Background Information for Teachers

(Note: Do not share this article with students as it gives too detailed an account of how to use inhalants)

Dangers of Inhaling Chemicals

The use of chemicals in the industrial world is widespread. Chemicals are used everyday to power machinery, adhere materials together, clean machinery, as well as the many ways of painting and finishing products. Many industrial chemicals are very toxic, that is, they are poisonous because they produce fumes that might be hazardous to a person's health if breathed in (inhaled). Proper use of industrial chemicals is most important in order to have a safe working environment.

People using any types of clear solution, industrial solvent, paint thinner, glues, gasoline or aerosols must take proper precautions. Most containers include safety recommendations as well as a warning of the effects the product may cause if misused. Always read the label before using any chemical!

Proper ventilation is always recommended. A good supply of fresh air will help prevent chemical fumes from becoming overpowering. Exhaust fans, masks or even respirators are ways of preventing a person from receiving too many fumes from toxic chemicals. Always know what chemicals you are working with and how to use them correctly.

Many household and industrial products contain poisonous chemicals that can effect the body and mind. These chemicals are not considered drugs because they were developed for other legal purposes. However, they can be dangerous if purposefully and excessively inhaled. When used incorrectly in this way, these chemicals are known as inhalants.

It is not uncommon for some young people to use/abuse inhalants because the chemicals are inexpensive and are not illegal to buy. They are divided into four divisions: Glues, Solvents (cleaning solutions, paint thinners, etc.), Gasoline, Aerosols.

Chemicals used for inhaling or "sniffing" produce effects that are similar to anesthetics, which act to slow down the body's functions. The "high" begins within minutes and lasts 15 to 45 minutes. High doses can cause loss of consciousness, even death. Inhalant users can experience many other bad effects including nausea, vomiting, ringing in the ears, abnormal heart rhythm, double vision, eye irritation, nosebleeds, poor judgement, chest pains, and loss of appetite. How strong their effects are depends largely on the experience and personality of the user, how much is inhaled and the specific substance used.

Extended use of inhalants can cause weight loss, fatigue and a salt imbalance. Repeated use can permanently damage the nervous system, greatly reducing physical and mental abilities.

Also, because inhalants are easily absorbed in the bloodstream and kidneys, long-term sniffing can damage blood, bone marrow, the brain and the kidneys.

Deep breathing of vapors or extended use of inhalants during a short period of time may result in other serious effects such as losing self-control, violent behavior, unconsciousness or death. Sniffing highly concentrated amounts of solvents or aerosols can produce heart failure and instant death. High concentrations of inhalants can also cause death from suffocation. It displaces the oxygen in the lungs. Inhalants can also depress the central nervous system so much that breathing slows down until it stops.

Signs and symptoms of inhalant use include: odor on breath and clothes, runny nose, sneezing, watery eyes, drowsiness, poor muscle control, presence of items such as bags or rags, discarded aerosol cans.

Student Worksheet

Questions About Inhalants

Please find the answers to the following questions as you read
"Dangers of Inhaling Chemicals."

- List 3 ways in which chemicals are used in industry.
A. B. C.
- What does the word TOXIC mean?
- Why is it important to read container labels before using any chemical product?
- Why are household chemicals not considered drugs.
- List the 4 divisions of inhalants.
A. B.
C. D.
- Why is the term "anesthesia" used in connection with inhalants?
- List at least 5 bad effects that inhalants can cause.
A. B.
C. D.
E.
- What effects can extended use of inhalants have on the body?
- What effect can sniffing highly concentrated amounts of solvents and aerosols produce?

SUBJECT OBJECTIVE

Students will be able to type five paragraphs correctly.

PREVENTION OBJECTIVE

Students will gain a better understanding of five known drugs, their slang names, possible effects and long term effects.

Materials/Resources:

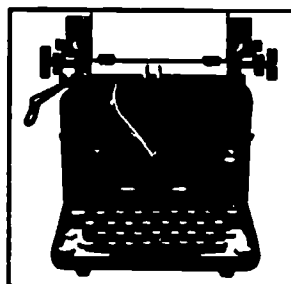
1. Student handout: "Nicotine, Alcohol, Cocaine, Marijuana, and Amphetamines"

Procedures/Activities:

1. Students will type the five paragraphs being sure to:
 - a. use correct spacing
 - b. use correct spelling
 - c. use correct punctuation

Extension Activities:

Students can be timed and race each other at correctly typing the paragraphs.



Grade level

7

Teacher Tips:

Critical thinking facilitates prevention infusion.

Suggested questions: What did I learn? What surprised me about this information? How can I change something in myself or school as a result of my feelings?

Any drug information could be substituted as something to be typed by students.

STUDENT HANDOUT**Nicotine, Alcohol, Cocaine, Marijuana and Amphetamines****READY, SET GO...**

NICOTINE - Nicotine is the drug found in tobacco products. It is extremely addictive. Some common slang names for tobacco products include: "smokes," "cigs," "chew," and "butt." Nicotine is a stimulant and a vasoconstrictor. Harmful effects of tobacco use include respiratory difficulties, fatigue, high blood pressure, stained teeth, bad breath, heart disease, and cancer.

ALCOHOL - The alcohol in beer, wine, and whiskey is also known as ethyl alcohol. It is often referred to as "booze," "hooch," and "brew." Alcohol is a depressant that slows down the brain and the central nervous system. Alcohol kills a person's inhibitions and thus they often do foolish things when they've been drinking. Alcohol may cause a loss of coordination, sluggishness, slurred speech, disorientation, and depression. Long term effects may include dependency (addiction), severe withdrawal, convulsions, and toxic psychosis. Alcohol can act as a poison and cause death.

COCAINE - Cocaine is a white powder or rock form (crack), that is made from the coca plant. Slang names include: "coke," "rock," "crack," "blow," "toot," "white," "snow," and "flake." Possible effects are increased alertness, increased pulse rate and blood pressure, excitation, insomnia, and loss of appetite. Long term effects include dependency, depression, paranoia, and convulsions.

MARIJUANA - Marijuana is a drug that comes from the Cannabis Sativa plant. Some common slang names include "pot," "grass," "dope," "weed," and "reefer." Marijuana is classified as a Hallucinogen because it alters the way a person thinks and feels. The main active chemical in marijuana is THC. Possible effects include increased appetite, distorted perceptions and disoriented behavior. Long term effects may include respiratory difficulties, lung cancer, interference with physical and emotional development (including fertility) and other physical and emotional problems.

AMPHETAMINES - Amphetamines are drugs that speed up the nervous system. They come in many forms including capsules, liquids, tablets, and powders. Possible effects are increased alertness, increased pulse rate and blood pressure, excitation, insomnia, and loss of appetite. The long term effects include withdrawal, convulsions and toxic psychosis. Some slang names include "speed," "bennies," "dexies," "uppers," and "pep pills."

ALCOHOL

Classification: Depressant
 Slang Names: Booze, Juice, Brew, Vino, Hooch
 Method of Use: Orally
 Dependence Potential: Physically and psychologically addictive

Alcohol is the most widely used and abused drug in America.

Alcohol abuse accounts for approximately 98,000 deaths annually. More than one-half of all murders are committed by people under the influence of this drug. One-half of all arrests, 90 percent of assaults, and over 50 percent of all rapes are related to alcohol use.

One out of every three American adults—56 million people—reports that alcohol abuse has brought trouble to his or her family. Drinking is estimated to be involved in about 50 percent of all spouse abuse cases and up to 30 percent of child abuse cases.

Social costs of alcohol addiction amount to \$118 billion a year in lost work time and related health costs, according to the National Institute on Drug Abuse figures. Federal spending on research in alcohol addiction totaled \$81 million in 1988, according to the National Institute on Alcohol Abuse and Alcoholism.

Alcoholism is one of the most preventable illnesses; yet seven out of ten adults drink alcohol. Of these, one out of ten is an alcoholic.

What is Alcohol?

The active ingredient in all alcoholic beverages is ethyl alcohol (ethanol), which is produced by yeast cells acting on carbohydrates in fruits and grains. Ethyl alcohol works much like ether—acting as an anesthetic to put the brain to sleep.

Alcohol is a central nervous system depressant that slows down bodily functions such as heart rate, pulse, and respiration. Small quantities of alcohol may induce feelings of well-being and relaxation; but in larger amounts, alcohol can cause intoxication, sedation, unconsciousness, and even death.

There are three types of alcoholic beverages:

Beer is fermented from grains and contains three to six percent alcohol.

Wine is fermented from fruit and normally contains 12 to 14 percent alcohol. Fortified wines have additional alcohol added and contain 18 to 20 percent alcohol. Wine coolers are a mixture of fruit juice, sugar, and red or white wine, and contain four to seven percent alcohol. (This is approximately the same alcoholic content as beer.)

Liquor is made from distilled (boiled off) alcohol and contains 40 to 50 percent alcohol. This is expressed as degrees of proof (two proof equals one percent alcohol). For example, 80 proof liquor is 40 percent alcohol.

Factors That Influence Alcohol's Effects

Drinking has different effects on different people, and the same amount of alcohol can affect the same person differently on different occasions. Four factors influence how alcohol affects people:

1. **Amount of Alcohol.** The more alcohol, the stronger the effects. A person may drink beer, wine, or whiskey; what matters is the amount of alcohol that is consumed.
2. **Body Weight.** People who weigh more are less affected by the same amount of alcohol than lighter people. Alcohol is water soluble—heavier people have more blood and water in their bodies, so the same amount of alcohol will be more diluted.

Gender also affects the influence of alcohol. Women have a higher proportion of fat and lower amounts of water in their bodies than men; therefore, a woman will have a higher blood alcohol content than a man who is of the same weight and who drinks the same amount.

3. **Food.** Alcohol “goes to the head” more slowly if one has just eaten or if one eats while drinking. Food slows down the passage of alcohol from the stomach to the small intestine.
4. **Attitudes.** What a person expects to happen after drinking has a lot to do with what does happen. A drinker who expects to get “high” is more likely to feel or act “high.” In one study, an experienced group of drinkers was given a glass of something nonalcoholic but was told it contained alcohol. Most of the group still got “high.”

Immediate Effects of Alcohol

When consumed, alcohol goes right to the stomach and passes through to the small intestine, where it is absorbed into the bloodstream. It takes about 30 seconds for the first amounts of alcohol to reach the brain after ingestion. Once there, alcohol acts primarily on nerve cells deep in the brain.

One drink for the average person (a 12-ounce beer, five ounces of wine, or one and one-half ounces of 80-proof whiskey) will bring a feeling of relaxation. Two and a half drinks in an hour can affect the drinker's judgment and lower his inhibitions. Five drinks in two hours will raise the blood alcohol level (BAL) to 0.10, the level considered illegal for driving in most states. The blood alcohol level is the percentage of alcohol in the bloodstream.

After this amount of alcohol, the average drinker will experience blurred vision, slurred speech, poor muscle coordination, and a lack of rational judgment. Ten drinks will yield a blood alcohol level of 0.20. It will take ten hours for the alcohol to be completely metabolized. After more than 12 drinks, the BAL will rise to 0.30 and the drinker will be in a stupor. A BAL of 0.40 to .050 will induce coma. A drinker in this condition may be near death because he could vomit and choke while unconscious. Breathing is likely to stop with BAL of .60.

Eliminating alcohol from the body is a long process. About 90 percent must be metabolized through the liver. The remaining ten percent is eliminated through the lungs and urine. It takes about one hour to eliminate one-half ounce of alcohol.

Heavy drinking in a short period of time will often cause a hangover the next day. A hangover is a sign of alcohol poisoning; it is the body's reaction to alcohol withdrawal. Symptoms of a hangover include nausea, disorientation, headache, irritability, and tremors.

What is Alcoholism?

Though there are many definitions, E.M. Jellinek, a pioneer in alcohol studies, defines alcoholism as "any use of alcoholic beverages that causes any damage to the individual or to society or both."

Currently there are three different theories to explain alcoholism:

Genetic Theory defines alcoholism as the result of a predisposed reaction to alcohol due to chromosomes, genes, or hormonal deficiencies.

Psychological Theory defines alcoholism as a condition that exists in which people have a preset disposition or personality that sets off a reaction to alcohol.

Sociological Theory defines alcoholism as a learned response and that addiction is a result of the influences of society.

Whatever definition or theory we use, we know that alcoholism is a progressive illness that can be treated. Each alcoholic has a different drinking pattern, but the one thing all alcoholics have in common is an uncontrollable drinking habit.

Alcoholism has three distinct stages:

Early Stage

A drinker in the early stage of alcoholism uses alcohol as a coping device to relieve tension or escape from problems. The drinker must drink more and more to achieve the same effect, and he has trouble stopping after one drink. He makes promises to quit drinking but never follows through.

Middle Stage

A drinker in the middle stage of alcoholism cannot get through the day without alcohol. He may need a drink in the morning to overcome the "shakes." The middle-stage drinker will begin to manipulate others, lie about drinking, and may drink in secret or hide alcohol. It is harder and harder to get the same effects as tolerance builds. Irregular heart beat, hypertension, loss of appetite, irritability, and insomnia are physical and psychological problems at this stage. He denies drinking is a problem.

Late Stage

The drinker now lives to drink. He avoids and distrusts others. All ambition is lost and the drinker is unable to cope with responsibility and is often absent from work. A late-stage drinker may suffer from reverse tolerance: the brain and liver can no longer tolerate a high level of alcohol, so the drinker becomes impaired after even small amounts of alcohol.

Malnutrition, nerve dysfunction, loss of memory, mental confusion, impaired vision, hypertension, heart disease, cirrhosis of the liver can occur during this stage. If drinking stops, there are severe withdrawal reactions. Late-stage psychological problems include shame, guilt, severe depression, violent behavior, low self-esteem, loss of control of emotions, loss of concentration and learning ability.

At this point, the drinker hits rock bottom. The alcoholic may continue to drink despite pain or disability. His only viable alternative is to seek treatment.

Long-term Effects of Alcohol

Frequent and prolonged use of alcohol has many detrimental effects on the body. Heavy drinkers develop a tolerance for alcohol, which means that larger amounts of alcohol are needed to get the desired effect.

A drinker is physically dependent if he experiences withdrawal symptoms when alcohol use is discontinued abruptly. Symptoms vary but include delirium tremors (the "D's"), cramps, vomiting, elevated blood pressure, sweating, dilated pupils, sleep problems, irritability and convulsions. Most of these symptoms will subside in two to three days, though irritability and insomnia may last two to three weeks. A drinker is psychologically dependent when he becomes so preoccupied with alcohol that it is difficult to do without it.

Short-term memory loss and blackouts are common among heavy drinkers. A blackout, which is an amnesia-like period often confused with passing out or losing consciousness, results when the drinker appears normal and may function normally; however, the person has no memory of what has taken place. Research indicates that blackouts are associated with advanced stages of alcoholism, and there is a correlation between the extent and duration of alcohol consumption during any given drinking episode and the occurrence of blackouts.

Medical Complications of Heavy Alcohol Use

Gastrointestinal System

Alcohol acts as an irritant and increases the amount of hydrochloric acid (a digestive juice) that is secreted from the stomach lining. Intoxicating amounts of alcohol cause the digestive process to stop, robbing the body of vital vitamins and minerals.

Alcohol in combination with other stomach irritants such as aspirin can cause gastritis, ulcers, and severe bleeding.

Liver Disorders

The liver maintains the blood sugar level in the body. This sugar (glucose) is the only source of energy that brain cells can use. When alcohol is consumed, the liver's attention is diverted from maintaining the sugar level to ridding the body of the alcohol, thus denying the brain the energy it needs to function properly.

Liver disorders associated with heavy alcohol use are:

Fatty liver gets its name from the deposits of fat that build up in normal liver cells. It is caused by the decreased breakdown of fatty acids by the liver and occurs when 30 to 50 percent or more of the drinker's dietary calories consist of alcohol. Acute fatty liver is reversible if alcohol use is stopped.

Alcoholic hepatitis often follows a severe or prolonged bout of heavy drinking. The liver becomes inflamed, damaging many liver cells, and metabolism is seriously disturbed. Symptoms include jaundice (yellowish color of the skin and whites of the eyes), weakness, loss of appetite, nausea, vomiting, low-grade fever, dark urine and mild weight loss. Alcoholic hepatitis is usually reversible with abstinence from alcohol. In some drinkers, it can be fatal or can become chronic. Alcoholic hepatitis precedes alcoholic cirrhosis in some cases.

Cirrhosis of the liver is a condition in which there is major destruction of liver cells and a build-up of scar tissue. One in ten long-term heavy drinkers will eventually develop cirrhosis of the liver, and because of the irreversible damage caused, a person with cirrhosis will most likely die within five years.

Heart Disease

Moderate drinking causes a significant rise in blood pressure. Heavy alcohol use is an important factor in causing high blood pressure and enlarged heart, which increase the risk of heart attack and stroke. As few as two drinks a day can lead to impaired muscle functioning of the heart.

Reproduction and Pregnancy

Effects of heavy alcohol use include missed menstrual periods in women and diminished libido and possible sterility in men.

A woman who drinks alcohol during pregnancy risks the health of her unborn child. Alcohol passes freely through the placenta, creating a level in the fetus almost identical to that in the mother. Babies whose mothers drink frequently or heavily during pregnancy may be born with serious birth defects. These defects are termed Fetal Alcohol Syndrome (FAS) or Fetal Alcohol Effects (FAE), which include babies affected by alcohol but without the full set of FAS characteristics. These characteristics are low birth weight, physical deformities, heart defects, joint and limb malformations and mental retardation. FAE complications include spontaneous abortion, stillbirth delivery, low birth weight, neurobehavioral abnormalities, mental retardation, cerebral palsy and learning disorders.

Treating Alcoholism

The sooner alcoholism is detected, the better the chances of recovery. There are several effective treatment methods for alcoholism, and what works for one person may not work for another. Many options should be explored when seeking help. Local or state health organizations can be contacted to find out what treatment exists in each community.

The important part of seeking treatment is the motivation and determination of the alcoholic to recover. It is also important for the family of the alcoholic to participate in treatment so they will better understand the alcoholic's problems and how family members also have been affected by alcohol.

For More Information:

The Clearinghouse
Florida Alcohol and Drug Abuse Association
1286 North Paul Russell Road
Tallahassee, Florida 32301
904/878-2196

AMPHETAMINES

Classification:	Stimulants
Slang Names:	speed, ups, uppers, white crosses, dexies, bennies, black beauties, crystal and crank
Mode of use:	swallowed (capsule form), sniffed, injected
Dependence Potential:	psychologically addictive

What are Amphetamines?

Amphetamines are synthetic psychoactive drugs that stimulate or increase the action of the central nervous system. They are available legally by prescription, and have been used medically to treat obesity, fatigue and depression. Today, medical use of amphetamines are limited to treating MBD (minimal brain dysfunction) in children and narcolepsy, a rare disorder in which an individual is overcome by sudden and uncontrollable attacks of deep sleep.

Amphetamines have become a popular "street drug." Legally produced amphetamines may be sold on the black market but quality and quantity of the drug may vary. Underground chemist have also developed a "look-alike" amphetamine that is being sold on the street. "Look-alikes" are drugs manufactured to look like real amphetamines and mimic their effects. They are sold on the street as "speed" or "uppers" and are expensive, even though they are a weak substitute for amphetamines. The drugs contain varying amounts of less potent stimulants such as caffeine, ephedrine and phenylpropanolamine - all legal substances that are usually found in over-the-counter diet pills and decongestants.

One the greatest dangers of "look-alikes" is that they are readily available and there is no way to know what you're really getting. There have been reports of users who have overdosed because they unknowingly purchased real amphetamines and took the same amount as they would take of the "look-alikes." Users of true amphetamines may also underestimate the potency of the "look-alike" drugs and take excessive amounts that can result in a toxic reaction.

Short-term Effects of Amphetamine Use

The effects of any drug depend on the amount taken, the past drug experience of the user, circumstances in which the drug is taken (the place, feelings, activities, and other people involved) and the mode in which the drug is taken.

At low doses, amphetamines reduce appetite, increase breathing and heart rate, raise blood pressure, and dilate the pupils. Moderate doses can cause a dry mouth, fever, sweating, headache, blurred vision, dizziness, diarrhea, constipation and loss of appetite. High doses of amphetamines may cause flushing, pallor (become pale), very rapid and irregular heart beat, tremors, loss of coordination or physical collapse. Injecting amphetamines creates a sudden increase in blood pressure that can cause death from stroke, very high fever, or heart failure.

In addition to the physical effects of amphetamines, users report feeling restless, anxious and moody. Increased doses intensify the effects and users may become excited, talkative and have a false sense of self-confidence or superiority. They may behave in a bizarre manner and some become aggressive and hostile.

Long-term Effects of Amphetamine Use

Prolonged use of amphetamine can lead to malnutrition and vitamin deficiencies, skin disorders, ulcers, lack of sleep, weight loss and depression. Frequent use of large amounts can produce brain damage that results in speech and thought disturbance.

Users of large amounts of amphetamines over a long period of time can develop an amphetamine psychosis, a mental disorder very similar to paranoid schizophrenia. They hallucinate (see, hear and feel things that do not exist), experience delusions (irrational thoughts or beliefs) and become paranoid (feel as though people are out to get them). People in this state usually exhibit a bizarre - sometimes violent behavior. Symptoms usually disappear within a couple of weeks after drug use stops.

Amphetamines also have the potential to produce tolerance - meaning that increased amounts of the drug are needed to achieve the desired effects.

Withdrawal symptoms can also occur when the use of the drug is stopped abruptly. Users may experience fatigue; long, but disturbed, periods of sleep; irritability, intense hunger; and moderate to severe depression. The length and severity of the depression seems to be related to how much and how often the amphetamines were used.

The effects of amphetamines on the fetus during pregnancy have not been fully established. Experiments with animals suggest that use of this drug during pregnancy may produce adverse behavioral effects such as hyperexcitability in offspring. Babies born to amphetamine-abusing mothers may also experience withdrawal symptoms shortly after birth.

Signs and Symptoms of Amphetamine Use

Below are several signs that may indicate the use of amphetamines.

- Dilated pupils
- Dry mouth and nose
- Bad breath
- Frequent lip licking
- Excessive activity, difficulty sitting still, lack of interest in food or sleep
- Irritable, moody, nervous
- Argumentative
- Talkative

For More Informatior

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BARBITURATES

Classification:	Sedative Hypnotic
Slang Names:	barbs, bluebirds, blues, tooies, downers, phennies, yellow jackets, blue devils, reds and rainbows
Method of use:	swallowed, injected
Dependence Potential:	physically and psychologically addictive

What are Barbiturates?

Barbiturates are a synthetic drug classified as a sedative hypnotic. Sedative hypnotics depress or slow down the body's functions. Often these drugs are referred to as tranquilizers, sleeping pills, or simply sedatives. Their effects range from reducing anxiety to inducing sleep, depending on the amount taken.

There are several medical uses for barbiturates, besides controlling anxiety and sleep disturbances. They are also used as a mild form of anesthesia and to control peptic ulcers, high blood pressure and epileptic seizures.

Barbiturates are also a popular "street" drug. Commonly abused barbiturates include amobarbital (Amytal), pentobarbital (Nembutal), and secobarbital (Seconal). These drugs account for approximately one-third of all reported drug-related deaths, including suicides and accidental drug poisonings. Accidental deaths may occur when a user takes one dose, becomes confused, and unintentionally takes an additional or larger dose.

Using barbiturates in conjunction with alcohol is especially dangerous; because alcohol is also a CNS (central nervous system) depressant, the effects are multiplied and the risk of death increases. Overdose deaths are more frequent when alcohol and barbiturates are mixed, whether accidentally or deliberately.

Physical Effects

The effects of barbiturates are much like the effects of alcohol. Small amounts produce calmness and relax muscles. Larger doses cause slurred speech, staggering, and poor judgement. High doses can cause unconsciousness and death. Effects of prescribed doses of short-acting barbiturates such as secobarbital generally last 4 - 6 hours while effects from phenobarbital, a longer-acting barbiturate will last from 8 - 12 hours.

When taken, barbiturates slow down CNS activities such as heartbeat, breathing, brain activities and reflexes. Because physical and mental responses are slowed down, it is dangerous for users to drive a car or operate machinery while under the influence of this drug. Other physical effects of barbiturates use include difficulty in breathing, lethargy, allergic reactions, nausea, and dizziness.

Psychological Effects

Barbiturates produce a feeling of euphoria, tranquility and temporary relief of anxiety. Regular and prolonged use of barbiturates induce tolerance—the need for higher doses of a drug to produce the desired effect. Physical and psychological dependence and withdrawal symptoms occur when use of the drug is abruptly stopped. Withdrawal symptoms range from restlessness, insomnia and anxiety to convulsions and death.

Because the drug can easily pass through the placenta, use of barbiturates during pregnancy may cause birth defects and behavioral problems in babies. Babies may be physically dependent on the drug at birth and experience withdrawal symptoms shortly after they are born. Their symptoms may include breathing problems, feeding difficulties, disturbed sleep, sweating, irritability, and fever.

Signs and Symptoms

The following signs and symptoms may indicate the use of barbiturates.

Symptoms of alcohol intoxication with no odor on the breath, however many users combine alcohol and barbiturates

Slurred speech, lethargic

Lack of facial expression or animation

Activities such as frequent visits to several physicians to obtain prescriptions to treat nervousness, insomnia, stress, or tension. Abusers may also visit numerous pharmacists to have the prescription filled

For More Information:

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CHILDREN OF ALCOHOLICS

In the Classroom

Children who grow up in alcoholic families are three to five times more likely to develop alcoholism, drug abuse, eating disorders or other addictive/compulsive behaviors than the rest of the population. It is estimated that there are 9 million children of alcoholics in schools throughout the United States. Sadly, only five to ten percent of all children of alcoholics in school receive any kind of help. The following story dramatizes the invisibility often associated with children of alcoholics: Jennie is eight years old and living in an alcoholic home. She's a quiet child and her teachers often overlook her. She seems to be very withdrawn and depressed, does not act out and has very few friends. Sometimes when you really watch Jennie, you will notice a glimpse of creativeness in her art or drama, something that shows she is unique. She seems to struggle around verbal and written skills. She generally stays alone on the playground, and sometimes the other children tease or pick on her. She never seems to get involved when they are picking on other children. When you look carefully, you notice her isolation. But most of all, she attracts no attention. Inside of Jennie is a constant feeling of rejection, hurt and anxiety. She feels unimportant, unloved. Jennie doesn't appear to be a problem to her school. Her survival role of a lost child makes her prone to other addictions, likely to have difficulty with ongoing relationships, and have a tendency to feel isolated and alone. Jennie may be a candidate for teenage suicide. Her high level of anxiety makes it difficult for her to learn since she has a hard time relaxing. She is determined to pass through life unnoticed, believing that this is the safest course to avoid violence, anger and rejection.

Each child is affected differently when growing up in an alcoholic family—depending on the age of the child at the onset of their parent's alcoholism, the child's sex, the frequency of drinking, violence in the home versus passivity and the child's perception of the alcoholism.

Children who live in alcoholic families generally have not matured emotionally, intellectually, or spiritually. The child may not receive proper physical care and unlike the rest of the population their age, the child must take care of him/herself.

Emotionally, alcoholic families don't allow the expression of feelings and so the stages of emotional development are not completed. There are no appropriate role models for the child. The child suffers intellectually because the alcoholic parent is not available. The child's reading level is shown to be congruent with the amount of reading that they see their parents doing or encouraging. In an alcoholic home, little time is spent on reading to a child. There is also a shortage of dialogue or discussions to challenge and help the child's intellectual growth. Spiritually there is no ongoing discipline to utilize rituals or discuss religion in the child's family because the central and most important focus is alcoholism.

Sharon Wegscheider-Cruse defined four specific roles adopted by children of alcoholics. They are: the Hero, the Scapegoat, the Lost Child and the Mascot. Usually a child will adopt one or a combination of roles. These roles help the child feel safe and in control. There is also an exaggerated and rigid identification for the child and it is difficult for them to act outside of the role. Hidden underneath, the child feels a constant sense of shame, guilt and crisis, but the child often avoids expressing any feelings.

It is important to understand that children of alcoholics do not choose their role in society but must accept their role as a means of survival. This is particularly evident during times of stress. The classroom is often an area of stress for children. They can be helped by providing a wider range of options to help them cope within their environment.

The Hero

The hero is the child who is always volunteering, is responsible, and feels a desire to be the best. They tend to be a leader, are controlling, rigid around other students, and have a need to help people and gain attention. In athletic competition, they exhibit poor sportsmanship because winning is so important. The hero may be obnoxious, and often referred to as a teacher's pet. This person needs structure and order. It is important to help this child know it's "okay" to make a mistake, to get less than 100%, or to not always get their needs met through attention and approval. Encourage them to allow others to be leaders. When giving this person a compliment, separate their behaviors, their achievements and their person. Let them know that you care about them no matter what they do. Help them share the conversation instead of monopolizing it. Don't always call upon them.



Scapegoat

The scapegoat is the one child of the alcoholic that is recognized frequently in the schools. They disturb classes, break rules, talk back, rarely do their schoolwork, are irresponsible, blaming, and are generally hostile and defiant. Scapegoats seem to develop a chemical dependency problem and are often referred to special education. In terms of behavior, this small group of children of alcoholics becomes the center of attention in the classroom and in the family. Through this behavior, the child gets attention and feels significant and powerful.

To help this child, it is important to set clear limits and help the child see that their choices are encouraging the consequences. It is essential that you consistently follow through with the promises that you make to this child. Help them understand that they are responsible for their behavior. Disengage yourself from their anger and frustration. Encourage them to take a leadership role. Be calm and clear with a sense of control whenever dealing with the defiance which is often manifested between the teacher and the scapegoat. Teachers often desire to rescue the scapegoat because they see the child hurting. It is important not to feel sorry for them. This gives the child more attention and enables them to continue deviant behavior. Don't let them get away with breaking rules. Work with them to increase their

attention span which is generally low. When possible, don't get into an interchange with this child in front of other students, they thrive on the negative attention. One-to-one interaction is more effective. Most of all, recognize their behaviors that are responsible.

Lost Child

Like Jennie, a lost child is a child who has decided to not make waves. They are not very talkative. The lost child won't get an A or an F but will stay in the middle so as not to draw attention to themselves. The child seems to have a short attention span and can create a whole fantasy world during a time of stress. They usually can disconnect from their emotional world. They will not volunteer to answer questions in class, but will answer if called upon.

Dealing with this child is difficult since most of the educational systems are strapped with high ratios of 20 to 30 students to one teacher. This child of the alcoholic tends to get lost easily in big classes. To create options for the lost child, try to make contact one-to-one with them, find out who they are and what their interests are. Begin to treat them special. Understand that they have a creative side. Encourage them to work in small groups. Help them build relationships with other students in the classroom. Call upon them to answer questions. Prepare them to be leaders. Encourage them to get involved in extra-curricular activities. Notice whether they are active or not active. Listen intently to what life is like for them.

The Mascot

During time of stress in the classroom, the mascot becomes a class clown. They say things without raising their hands. The child tries to encourage laughter or look like a fool. The mascot has learned this survival role to diffuse stress and feels significant and powerful when they are able to make people laugh.

Set clear and specific limits with the mascot. Try not to get involved in the laughter of the students at the mascot's silly behavior. Encourage them to be leaders, to raise their hands and be responsible. Stroke them when they have been appropriately humorous. Help them be in positions of importance in your class or in the school. By listening intently and being calm, you may encourage the child to seek help in a support group like Ala-Teen or a Student Assistance Program. Support groups like this encourage a child to talk about what it is like to live in an alcoholic home, help them begin to trust other students, express feelings, and understand their origin. They also help these children relate to peers and adults positively. When they learn that alcohol and drug abuse is a "disease" it decreases feelings of pain and sense of responsibility for the problems in their family. They feel less anxious and less burdened with life. With this awareness, their school performance should improve.

Conclusion

The teacher can help change the child of an alcoholic's view that they are sick and dysfunctional. The teacher can confirm that they are experiencing normal reactions to an extremely abnormal situation. The inconsistency, unpredictability, and lack of dependability which are common in an alcoholic home can make a child fearful, confused, anxious, and hypervigilant. Teachers can help these children have a normal childhood by encouraging them to use their imagination, to be creative, and to laugh and be playful. Act as a nurturing adult and encourage a trusting and supportive relationship in the classroom. This will create more options and challenge them to leave their old survival techniques and develop healthy, new attitudes.

Written for Florida Alcohol and Drug Abuse Association by Stephen Andrew and Penelope Reilly, MSN, RSAC of Day One.

COCAINE

Classification:	Stimulant
Slang Names:	caine, coke, snow, toot, white lady, nose candy, blow, lines, rails, rock
Methods of Use:	sniffing/snorting, inhalation, injection
Dependence Potential:	psychologically and physically addictive

What is Cocaine?

Cocaine is a short-acting, powerful, central nervous system (CNS) stimulant which comes from the South American coca bush. The cocaine (cocaine hydrochloride) most common in this country is a white crystalline powder extracted from the leaves of the coca. The illicit "street" drug is a mixture of this pure substance and adulterants (comprising 5 to 70 percent of the mixture) added to stretch the supply and to increase the seller's profit. Talc, flour, laxatives, sugar, local anesthetics, and other stimulants or powders are just a few of the additives that cocaine is "cut" with.

Users buy powdered cocaine in grams (1/28 ounce) or in fractions of a gram called "quarters" or "eighths." Often, cocaine is snorted through the nose using plastic straws or rolled-up dollar bills. Razor blades are used to crush any large rocks or particles of cocaine and to form "lines" to make snorting easier. Some users inject cocaine into a muscle or vein, or convert cocaine into a smokable form called freebase.

What is Freebase?

Freebase is a form of cocaine that is smoked. It is the result of a chemical process whereby "street cocaine" (cocaine hydrochloride) is converted to a pure base by removing the hydrochloride salt and many of the "cutting" agents. This process usually involves the use of ether, which is a highly flammable solvent. The end product, freebase, is not water soluble. Therefore, the only way to get it into the system is to smoke it.

What is Crack?

"Crack" is a light brown or beige pellet of ready-to-smoke freebase cocaine. It is formed when powdered cocaine is melted in a glass tube with water. When the liquid cools, it is mixed with baking soda and cold water and cut into small pieces which then harden. In some parts of the country, lumps of crack are called "rock" or "ready rock." In other areas, the drug is sold in 3-inch sticks with ridges that are referred to as "french fries" or "teeth." There are also reports that crack is being pressed into pills. Crack should not be confused with "rock cocaine" which is a cocaine hydrochloride product for intranasal snorting and is sold in California.

Crack is very addictive. Because it is smoked, high doses of cocaine reach the brain almost instantly, causing a dramatic high. This rapid "high" is followed by a profound "low" that leaves the user craving more. As a result, physical and psychological addiction can occur in as little as two weeks.

How Cocaine and Crack Affect the Body

Immediate Effects:

When cocaine is "snorted" the effects begin within a few minutes, peak within 15 to 20 minutes and disappear within a few hours. Low doses produce a short-lived euphoria and feelings of increased energy, alertness, self-esteem and sensory awareness. While artificially depleting the body's energy supply, cocaine also reduces the perceived need for food and sleep and can cause impulsive behavior and mood changes.

Smoking freebase produces a shorter more intense "high" (lasting from 2 to 3 minutes) because inhalation is the most direct and rapid way to get the drug to the brain. Because larger amounts are getting to the brain more quickly, smoking also increases the risks of using the drug. Such risks include: confusion, anxiety, slurred speech, and psychological problems.

When crack is smoked, an intense and rapid euphoria, commonly known as a "flash high," is produced. The cocaine molecules reach the brain in less than ten seconds. The three to five-minute high is followed by an unpleasant crash. The user feels irritable, agitated and has an intense craving for more cocaine. The craving is caused by a high concentration of the drug in the bloodstream. The initial high is never reached again and the subsequent lows keep getting lower. This cycle reinforces the craving.

Injecting cocaine produces an effect within 30 seconds, which peaks in 5 minutes and lasts about 30 minutes. Users who inject run the risk of getting hepatitis, AIDS and other infections from using unclean needles.

Long-term Effects

Heart- Cocaine and crack constrict the heart's blood vessels, making it work harder and faster to move blood through the body. In some users, this stress may trigger chest pain or a heart attack. The drug can also interfere with the signals controlling the heart's pumping action. When this happens, the organ beats so irregularly it may stop. Cocaine, in all forms, including crack, has been associated with sudden heart attacks in people under the age of 30, some of whom had used the drug for the first time.

Brain- Cocaine and crack can cause brain seizures, a disturbance in the brain's electrical signals, some of which regulate the heart and muscles controlling breathing. Studies show that over time, the brain appears to become more and more sensitive to cocaine. As a result, the threshold at which seizures occur is lowered. Repeated use of the drug without experiencing problems does not guarantee seizures will not occur. The next dose—used in the same amount and the same way—can produce a seizure that may cause the heart to quit beating or the muscles controlling breathing to stop working.

In addition, some users have suffered strokes after using cocaine—the increase in blood pressure caused by cocaine may rupture brain blood vessels.

Changed Behaviors of Cocaine and Crack Users

The obsessive, drug-seeking behavior of cocaine and crack users seems to be due to the drugs' overwhelming influence on what has been called the "reward center" in the brain. Cocaine appears to cause an intense stimulation of the center by allowing a brain chemical called dopamine to remain active longer than normal. This causes changes in brain activity and triggers an intense craving for more of the drug. The user may compulsively use cocaine or crack just to feel normal.

Violent, erratic, or paranoid behavior can sometimes accompany use of these drugs. This "cocaine psychosis," which can occur in all cocaine users, may appear more rapidly in those who smoke crack. Affected users can be anxious, believe they have superhuman powers, or become suspicious and paranoid to the point where they believe that their lives are in danger and react in bizarre or violent ways. Hallucinations are also common. Users may hear or see things that don't exist, or they may experience "coke bugs"—a sensation of imaginary insects crawling over the skin.

Other Effects of Cocaine and Crack Use

Suicidal tendencies	Chronic fatigue/exhaustion
Dramatic mood swings	Weight loss, resulting from a loss of appetite
Chronic nose bleeds and runny nose	Chronic sleep problems
Chronic sore throat	Chronic headaches
Loss of friends and former values	Respiratory ailments
Miscarriage/birth defects	Vitamin deficiencies
Loss of interest and motivation	Addiction
Miscarriage/birth defects	Death
Loss of interest and motivation	Crime/arrests
Chronic nausea/vomiting	

Cocaine abusers often depend on other drugs, including alcohol, to help them sleep or to combat the jittery feeling that characterizes the cocaine high.

Signs and Symptoms of Cocaine Abusers

- Dilated pupils
- Dry mouth and nose, bad breath, frequent lip licking
- Excessive activity—difficulty in sitting still
- Lack of interest in food or sleep
- Irritable, anxious, restless
- Talkative but conversation lacks continuity
- Runny nose, cold or chronic sinus/nasal problems or nosebleeds
- Sudden drop in grades or work performance
- Frequently in trouble or has accidents

Use or possession of paraphernalia including small spoons, razor blades, mirror, little bottles of white powder, plastic, glass or metal straws, glass pipes and miniature blow torches

Withdrawal Symptoms

People who stop using cocaine often experience irritability, nausea, agitation, sleep disorders, severe depression, muscle aches and an intense craving for the drug.

Treatment

The long-lasting craving for these drugs makes addiction hard to treat without assistance. The first step in treatment is detoxification, ridding the body of the drug. This is sometimes followed by medication, such as antidepressants, to help control the craving and treat the severe depression that occurs after cocaine or crack is withdrawn. Treatment programs also help the recovering user find other alternatives to curb the craving the drug. Often this help is through a combination of individual, group, and family counseling in addition to other techniques aimed at changing behavior.

The key to successful treatment is restructuring the addict's daily life. The cocaine-addicted client has several internal and external "triggers" that, if not avoided, can rekindle the hunger for cocaine. Internal triggers include boredom, stress, and the need for rewards. External triggers include extra money, familiar music, paraphernalia, and past relationships—anything that can remind them of life with cocaine. The goal of recovery programs is to improve self-image and promote healthy living without drugs. Supportive family members or close friends of the person in treatment can often help make recovery a success. Many recovering individuals also find strength and support in attending Cocaine Anonymous or Narcotics Anonymous, which are self-help support groups modeled after the Alcoholics Anonymous program. To achieve recovery, the cocaine abuser must begin anew and develop a lifestyle of healthy attitudes and activities.

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DESIGNER DRUGS

What are Designer Drugs?

Designer Drugs are variations of already federally controlled synthetic drugs which mimic the effect of the classical narcotics, stimulants, and hallucinogens. Black-market chemists can create new, untested, legal drugs by slightly altering the molecular structure. The term designer drug also refers to a "new drug" that appears on the street, such as "crack", and are forms of already existing drugs. (Kirsch, M.M.; Designer Drugs; Comp Care; 1986).

The number of potential synthetic analogues that can be made and distributed is extremely large. Synthetic analogues that are currently available through the black market are divided into three types: analogues of phencyclidine (PCP), analogues of fentanyl and meperidine (both synthetic narcotic analgesics) and analogues of amphetamine and methamphetamine (which have hallucinogenic and stimulant properties)

PCP Analogues ("Dust")

PCP first appeared in the 1960s but quickly gained a reputation because of its "bad trip" which often caused users to become aggressive and violent. In the late 1970s, PCP resurfaced in a smokeable form and became popular because it offered a cheap high that lasted sometimes for a full day.

PCP is a white powder that dissolves in water. It has been sold in the form of tablets, powder, and more frequently as a liquid for dipping cigarettes. In the past five years, a few "designer" PCP derivatives have surfaced, these include: TCP, PCE, PCPY, PCC and Ketamine. In 1986, a new drug called "Wack" was being sold in Dallas. The drug was being smoked and contained PCP, formaldehyde and a common roach spray. On the East Coast, Space Base, which is a mixture of "Crack" and PCP became popular. The combination of these drugs produced powerful mood changes and a loss of contact with reality.

In small doses, PCP users exhibit agitation and excitement; gross incoordination; blank stare; catatonic rigidity; inability to speak; rapid involuntary vibration of the eyeball; flushing; and profuse perspiration. In moderate doses - PCP causes: coma or stupor; vomiting; hypersalivation; shivering; and fever. In high doses - users experience prolonged coma; hypertension and convulsions.

When treating a PCP user, it is best to keep them in isolation. Outside stimulation can often cause paranoia, anxiety and violent behavior. If a patient suffers respiratory depression, convulsions and coma, it is necessary for them to be on a full life-support system in an intensive-care unit.

There appears to be a declining interest on the black market to design new forms of PCP because of its bad reputation. The manufacturers that are involved in the trade continually fear the risk of getting caught.

Fentanyl Analogues

Marketed as "China White," "Synthetic Heroin," "Mexican Brown," or "Persian White," this synthesized designer heroin is anywhere from several hundred to three thousand times stronger than morphine. It is contaminated with many impurities, is disguised and sold as heroin, cocaine or speed and has caused countless deaths over the years.

Fentanyl is a synthetic narcotic used in about 70% of all surgeries in the United States. Alpha-methyl fentanyl is a simple derivative of fentanyl and is the identifying substance in designer heroin. Its chemical structure is different from heroin and morphine, but it has identical pharmacological and toxicological effects. It is sold in powder form and often diluted with large amounts of powdered sugar, baby laxative or antihistamines. Intravenous injection is the most common route of administration; however, smoking or snorting are increasing in popularity. Addiction potential is extremely high because repeated use produces tolerance and physiological dependence.

Fentanyl acts primarily on the central nervous system and the gastrointestinal tract. Users often exhibit euphoria, drowsiness, respiratory depression, constipation and muscle rigidity. The most acute of these is respiratory depression. Fentanyl produces a decrease in heart rate of up to 25% and a parallel blood drop of up to 20%. The effects of the fentanyl derivatives on the respiratory system are unknown. It can only be assumed the effects would be more intense due to its higher potency.

There are several withdrawal symptoms the user will experience during detoxification of the drug. These symptoms include: runny nose, tearing, sneezing, irritability, insomnia, loss of appetite, abdominal cramps, pain in the bones and muscles of the back, excessive sweating, nausea, tremor, increased heart rate and blood pressure, and diarrhea, all leading to weight loss and dehydration. There is also evidence that irreparable damage can be done to the brain's receptors from a single injection of either too much or too potent a designer heroin. Safe experimental nondrug therapies for treating withdrawal symptoms have had positive results, and the user may find help and support at such organizations as Narcotics Anonymous. (M.M. Kirsch, 1986)

Meperidine Analogues

Meperidine (also known as Demerol) is a synthetic narcotic used to control severe pain. Two designer drugs, similar in structure to meperidine, that have appeared on the street are MPPP and PEPAP. These derivatives are much more potent than meperidine. MPTP has caused irreversible brain damage in several individuals and is manifested in a syndrome very similar to Parkinson's disease - a disease which kills nerve cells in a tiny area at the base of the brain responsible for motor movement and the production of dopamine - a neurotransmitter. Symptoms of Parkinson's disease include: rigidity, palsy, bent-over posture and difficulty speaking. MPPP, with its contaminant MPTP, is usually sold as heroin. On the street, it has been given names such as "synthetic heroin," "new heroin" and "synthetic demerol." It has been sold as an all-purpose "analgesic painkiller."

Meperidine analogues are usually sold as white powder and are administered intravenously - some, however, snort the drug. When injected, contaminated meperidine users reported feeling a severe burning in their veins. Other effects felt included: a metallic or medicinal taste in their mouth; jerking of limbs; tightness, stiffness, aching or freezing of muscles; lack

of coordination; numbness of extremities; loss of facial hair; increased oiliness of skin; difficulty opening eyes and blurred vision; difficulty speaking and swallowing; drooling; a very spaced hallucinogenic high; and excessive sweating. Victims of MPTP poisoning suffered extreme symptoms - several of them literally froze up.

Treating victims of MPTP is difficult. Users who have been exposed to the toxin often do not exhibit symptoms of Parkinson's disease for several months or years, or they may not recognize the early stages of the disease. Doctors currently use L-dopa, a prescription drug, to temporarily treat Parkinsonism. The body chemically changes L-dopa into dopamine. In the future they hope to use MAO inhibitors (MAO catalyzes the oxidation of dopamine) to slow the progression of the disease.

Amphetamine and Methamphetamine Analogues

Amphetamines are a large group of synthetic drugs. They are classified as a central nervous system stimulant because of their euphoric effects. Methamphetamine was synthesized in 1919 and was found to have similar properties as amphetamines. Like other stimulants, methamphetamine produces euphoria, relieves fatigue, suppresses appetite and reduces the need for sleep. The street names for methamphetamine include "Crystal," "Crank," or, more commonly, "speed." These drugs are popular because they are cheap and have a lasting effect. A designer crystal has appeared recently called "Glass" because it resembles tiny chunks of translucent glass. Some believe glass is a freebased (smokeable) form of crystal but black marketers say it is just a new way of producing crystal.

When taken intravenously, the effects of crystal are felt instantaneously. The methamphetamine high lasts an average of four to six hours. The users quickly build a tolerance to these drugs and must continually increase consumption to obtain the same effects. Therefore, addiction probability is high. Adverse reactions to these drugs depends on the user's sensitivity and tolerance. Headaches, dizziness, confusion, agitation, nausea, and muscle aches and pains are common complaints. As the user increases the dosage, bizarre behavior is manifested by paranoia, frequent mood changes. Psychosis is exhibited after prolonged chronic use of the drugs.

Another current methamphetamine analog that is extremely popular among college students and young professionals is MDMA a.k.a. "Ecstasy" a.k.a. "XTC" a.k.a. "Adam." This new drug is considered the licit parent (and illicit daughter) of MDA (the "love drug") and methamphetamine (Kirsh, M.M; 1986). MDA is an amphetamine-like drug. It destroys the serotonin-producing neurons which play a direct role in regulating aggression, mood, sexual activity to pain. It is probably this action on the serotonin system which gives MDA its claim-to-fame of heightened sexual experiences, tranquility, and conviviality.

MDMA was first introduced as an appetite suppressant but was never manufactured because it gave users the heaves. It later became popular among psychotherapists because it was legal and was reported to make people trust one another and break down barriers between therapists and patients, lovers and family members.

In June 1985, the Drug Enforcement Agency banned MDMA and placed it as a Schedule I classification along with heroin, LSD, and cocaine. Schedule I drugs are generally dangerous narcotics that have a high potential for abuse and no medical usefulness.

MDMA is a white powder in its purest form. It tends to have a strong medicinal taste and is usually packaged in a clear gelatin capsule. It is rare to find MDMA in this form and also very expensive. MDMA has also been sold as a yellowish or white pill. It is usually cut (or diluted) with speed, caffeine, ephedrine or other amphetamines.

In low doses, MDMA is a mild intoxicant. It is nonhallucinogenic and has few physical liabilities. Toxic effects become apparent in doses of 100 to 200 milligrams. When taken, the user experiences; an enhanced alertness and mental clarity; positive feelings and attitudes toward others and self; an increased ability to effectively work on problems and conflicts in lives and relationships; an increased emotional warmth and love; and a greater ease in accepting positive and negative expressions.

Adverse effects of using this drug include: muscle tightness; involuntary teeth clenching and biting inside of cheek; nausea and possible vomiting; dehydration; muscle aches and pains that persist for up to six weeks; restlessness; shaking in the jaw; swelling of the eyes and blurred vision; intermittent rapid eye movement; decreased sensitivity to physical pain; pulse and blood pressure fluctuation; sugar level fluctuation; and occasional visual hallucinations.

Other long term effects include: psychological difficulties including confusion, depression, sleep problems, drug craving, severe anxiety and paranoia and even psychotic episodes.

Because it is chemically structured like MDA and methamphetamine, many speculate about the neurotoxicity of MDMA. MDA has been shown to destroy serotonin-producing dopamine which leads to Parkinson's disease. Studies done on rats concluded that after treating them with multiple or single injections of MDMA - a greater depletion of serotonin occurs after repeated doses.

Currently, some researchers, psychologists, psychiatrists and lawyers are contesting the issue of whether the DEA prematurely scheduled a drug that presumably had some therapeutic value. They feel that the medical profession, not the government, should decide what is or is not accepted medical practice. They would like MDMA to be put on a Schedule III classification which is less restrictive and would allow medical use and research to be done.

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DUI - Driving Under the Influence

Driving under the influence (DUI) of alcohol or other substances is a dangerous game. On any given weekend night, one out of every ten drivers is legally drunk: only one out of every 2,000 will be arrested. According to the National Highway Traffic Safety Administration, 51 percent of all fatal accidents are alcohol-related. NHTSA also estimates that two out of every five people in the U.S. will be in an alcohol-related crash in their lifetime.

In Florida, 1,560 people lost their lives last year to drinking and driving. On these, 269 were under the age of 21. In 1987, there were 64,260 arrested for driving under the influence, of which 562 were juveniles.

When consumed, alcohol acts as a depressant on the central nervous system. Alcohol is almost immediately absorbed into the bloodstream. It takes approximately 30 seconds for the first amount of alcohol to reach the brain resulting in slower reflexes, lack of coordination, poor vision, reduces concentration, and poor judgement.

The amount of alcohol in the blood is called the blood alcohol content (BAC). The amount of alcohol in the body can be measured by using a breath, urine, or blood test. This amount is measured as a percentage - how many parts of alcohol to how many parts of blood.

For a person weighing 120-140 pounds, three drinks within a two hour period will produce a BAC of .05 percent. At this time, driving ability will be seriously impaired. Four to five drinks within two hours will put a drinker at the legally intoxicated limit with a BAC of .10 percent. At this time, a drinker will experience blurred vision, slurred speech, poor muscle coordination, and a lack of rational judgement. If no more alcohol is consumed, it will take approximately three hours for the BAC to drop less than .05 percent. The risk of a person with a BAC of .10 percent having an accident is twelve times higher than for a person who had not been drinking.

Eliminating alcohol from the body is a long process. About 90 percent must be metabolized through the liver. The other 10 percent is eliminated through the lungs (breathing) and urine. Nothing can speed up this process. "remedies" like cold showers, fresh air, drinking coffee, and exercising to sweat out the alcohol have no effect on the blood alcohol content. Time is the only cure for someone who has had too much to drink.

It takes approximately one hour to eliminate 1/2 ounce of alcohol. This is the amount of alcohol in one 12-ounce can of beer, one 5-ounce glass of wine, or 1 1/2 ounces of 80-proof whiskey. Thus, beer=wine=liquor. It does not matter what you drink - but how much alcohol is consumed!

Teens, Drinking and Driving

Motor vehicle accidents are the number one killer of teenagers, taking nearly 10,000 lives annually. Alcohol is a factor in about half of all serious car accidents involving youth.

The high incidence of speeding among teens, the danger of driving at night, and the low percentage of seat belt use among teens are other factors that contribute to teenagers and the risk of accidents.

Drinking, Driving and the Law

Under Florida law, DUI, (Driving Under the Influence) is an offense evidenced by impairment or normal faculties or an unlawful blood level of .10 percent or above. The following are the current possible penalties for a first time offense:

A fine of \$250.00 to \$500.00 for BAC of .10 percent. If the BAC is .20 percent or higher, the fine is \$500.00 to \$1,000.00

Mandatory 50 hours of community service

Imprisonment of up to six months

Driver's license revoked for a minimum of six months, maximum of one year

Mandatory completion of DUI school;

Monthly probation for up to a year

If there have been property damage, personal injury, or death, a first offender faces a fine between \$1,000 and \$10,000 or a prison term of one to 15 years.

DUI penalties for a first offense in these countries vary from having the convicted driver's name published in the newspaper in Australia, one year at hard labor in Sweden and Finland, or to death by a firing squad in El Salvador.

Other Drugs and Driving

Alcohol is not the only drug that affects driving ability. Any substance that changes one's feelings, perceptions, and behavior affects judgement behind the wheel.

Marijuana creates the illusion that senses are sharper; however, a person's sense of time and space is altered, making it difficult to judge distance and speed. Even hours after the high is gone, a marijuana user can experience difficulty dealing with sudden or unexpected events.

Hallucinogens. LSD, PCP, or other hallucinogens can make a driver hear, see, smell and

feel things that do not exist. The driver will concentrate on the hallucinogens instead of the road. Hallucinogens may cause the driver to panic and lose control of the car.

Inhalants such as glue, paint, solvents, aerosols and other products with fumes can cause the same mind changes as other hallucinogenic drugs, with the same consequences for driving,

Stimulants, like cocaine and speed increase physical energy and mental activity, making it hard to sit still or concentrate. Users of stimulants may experience nervousness, dizziness, and visual problems. They may experience fatigue and depression when the high is gone. Stimulants can lead a driver to overestimate his abilities, which can cause him or her to take unnecessary chances on the road.

Sedatives numb the central nervous system causing muscle relaxation and drowsiness. A driver using sedatives lacks muscle coordination and the ability to make rational judgements.

Over-the-Counter- Drugs, such as antihistamine and other medicines for treating colds, have the same effects as sedatives, clouding judgement, and causing the driver to feel drowsy.

Mixing alcohol with other drugs can be deadly because the effects of each drug can be multiplied, leading to come or death.

Preventing DUI

Millions have suffered because of the carelessness of drunken drivers. Arresting drunk drivers is only part of the solution.. Tougher DUI laws need to be established and enforced. Educating the public on the dangers of alcohol and drugs and the consequences of driving the influence is imperative.

It is ultimately the responsibilities of each of us to keep impaired drivers off the road. If you know someone who has had too much to drink - don't let him or her get behind the wheel. Take the car keys, find that person another ride, or wait until they have sobered up enough to drive. If a drinking driver refused your help, do not get in the car yourself and be sure to keep anyone also from accepting a ride. These may seem like impossible tasks, but you may be saving lives: those of the drinker, their passengers, and innocent victims.

Help make our roads safe - learn how alcohol and drugs affect driving ability, and use that knowledge to protect yourself and those around you.

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EATING DISORDERS

We all worry about food, overeat at holidays, or skip a meal. However, people with eating disorders do more than worry—they live in constant fear of food and fat, often struggling to hide eating patterns they can't control. Obesity, bulimia and anorexia have become epidemic. In our culture this comes as no surprise where "thin is in" and we spend billions of dollars on diets.

In a recent survey of teens across America, 57% were found to be unhappy with their weight—90% wanted to lose weight and 18% wanted to gain weight. It is among this 57% of teens that eating disorders are most likely to occur.

If you are concerned about an eating disorder in yourself, a family member, or a friend, you do not have to feel alone or ashamed. Eating disorders are common and they can be treated.

Ending the Secrecy

People try to hide an eating disorder, often by "binging," binge and purging, or starving. "Binging" means out of control eating—often thousands of calories at a time—sometimes with, sometimes without pleasure. Eating disorders are divided into three groups, Obesity, Bulimia, and Anorexia Nervosa, and are defined by the measures taken to control weight.

Obesity, a medical problem in its own right, can result from binging and poor nutritional choice. People with bulimia binge and then purge (get rid of food, often by vomiting, taking laxatives, or excessive exercise). People with anorexia simply starve themselves.

Ending the secrecy is the first step to recovering from any eating disorder.

Obesity

Obesity is categorized into three areas: mild, moderate, and severe. Determination is based on height, weight, and body fat. People with mild to moderate obesity frequently report a history of being able to eat and not gain weight. Suddenly they find themselves exercising less, eating more, binging regularly and noticing their body fat rising steadily. Most people can lose weight safely and stop binging if they commit their time and energy to a behavior change plan. It is always recommended that one speak with a specialist before radically changing one's diet.

People with severe obesity have usually been overweight all their lives. Treatment involves medical health care and must begin immediately! Symptoms of obesity include:

- high blood pressure and high cholesterol levels;
- shortness of breath after mild exertion;
- an obese eating style—eating large bites, fast, and without pleasure;
- constant failed attempts at dieting;
- guilt after bingeing and anger when confronted by others about eating;
- limited social activities from too much weight and too little self-worth.

Bulimia

People with bulimia tend to be slightly overweight, underweight, or within normal weight range for their height and body frame size. They most often report a history of dieting along with fluctuations in their weight. The mild starvation caused by chronic low-calorie dieting seems to set off a binge-purge cycle. Bulimics binge and then purge by self-induced vomiting, abusing laxatives or taking diuretics (drugs that cause urination). After purging episodes, bulimics often fast or diet and frequently abuse exercise as a method of weight management. Some experts believe as many as 10% of adolescent females are bulimic.

Symptoms of bulimia include:

- binging and purging from once a week to five times a day;
- extreme fear of gaining 1-5 pounds;
- distorted body image (seeing and feeling “fatter” than you are);
- dry skin and dry brittle hair;
- swollen glands under the jaw from vomiting (“chipmunk cheeks” making your face look fat);
- depression, guilt, fear and mood swings;
- fatigue and cold sweats from fast changes in blood-sugar levels.

The health risks of bulimia are created by mild starvation from dieting and damage to the digestive system from bingeing and purging. The risks include:

- electrolyte imbalance leading to irregular heart beat, heart failure and kidney damage
- laxative dependency (addiction)
- throat damage
- dental problems

stomach rupture

irregular menstruation

Most bulimics cannot break the binge-purge cycle by themselves. It's a sign of strength and wisdom to seek professional care. Treatment may include counseling, medication or both.

Anorexia Nervosa

Some anorexics start out chubby and then, responding to the pressure to be thin, start a restrictive diet. When friends admire their weight loss, they continue to starve themselves and lose weight. Other anorexics attempt to deter normal physical changes (development of thighs, breasts, hips) by restricting their caloric intake. This restriction stops physical development and the anorexic is able to avoid maturation.

There is an estimated 80,000 American women who are anorexic. These women are frequently described as bright, capable, and high-achieving. Because this disorder can be fatal (10% die of starvation or suicide), anorexics need professional care to recover. Parents often have to encourage or even force an anorexic adolescent into treatment. Treatment usually includes hospitalization and counseling.

Symptoms of anorexia include:

- wearing baggy, heavy clothes to hide their thinness;
- loss of menstrual cycle;
- dry, cold skin with downy hair on arms, legs, back, face or chest;
- insomnia and hyperactivity;
- distorted body image;
- extreme, excessive, and rigid exercise routines;
- extreme fear of gaining any weight;
- strict food rules (such as no liquids at all or no eating without);
- strict food rules (such as no liquids at all or no eating without exercise first);
- slowed physical and social development

Additional health risks include:

- heart failure
- kidney failure
- suicide
- low protein stores (the body stores protein from muscles and organs to fuel basic body needs)

J U S T T H E F A C T S

digestive problems
electrolyte imbalance
Lifelong Recovery

It takes time to fully recover from an eating disorder. People may need two or three years to develop a new relationship with food, themselves, and others. During recovery it is important to avoid the pitfalls of relapse (falling back into old habits). One must learn to cope with minor "lapses" so they don't become full-fledged relapses. Successful recovery includes:

knowing your triggers, asking for help and having an emergency plan;
seeking support from family and friends;
seeking support from self-help groups and professional counselors;
engaging in healthy exercise;
practicing good nutrition.

Written for the Florida Alcohol and Drug Abuse Association by Vince Dix, Ph.D., Eastwood Clinic, Inc.

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Ending the secrecy is the first step to recovering from any eating disorder.

Obesity

Obesity is categorized into three areas: mild, moderate, and severe. Determination is based on height, weight, and body fat. People with mild to moderate obesity frequently report a history of being able to eat and not gain weight. Suddenly they find themselves exercising less, eating more, binging regularly and noticing their body fat rising steadily. Most people can lose weight safely and stop binging if they commit their time and energy to a behavior change plan. It is always recommended that one speak with a specialist before radically changing one's diet.

People with severe obesity have usually been overweight all their lives. Treatment involves medical health care and must begin immediately! Symptoms of obesity include:

- high blood pressure and high cholesterol levels;
- shortness of breath after mild exertion;
- an obese eating style—eating large bites, fast, and without pleasure;
- constant failed attempts at dieting;
- guilt after bingeing and anger when confronted by others about eating;
- limited social activities from too much weight and too little self-worth.

Bulimia

People with bulimia tend to be slightly overweight, underweight, or within normal weight range for their height and body frame size. They most often report a history of dieting along with fluctuations in their weight. The mild starvation caused by chronic low-calorie dieting seems to set off a binge-purge cycle. Bulimics binge and then purge by self-induced vomiting, abusing laxatives or taking diuretics (drugs that cause urination). After purging episodes, bulimics often fast or diet and frequently abuse exercise as a method of weight management. Some experts believe as many as 10% of adolescent females are bulimic.

Symptoms of bulimia include:

- binging and purging from once a week to five times a day;
- extreme fear of gaining 1-5 pounds;
- distorted body image (seeing and feeling “fatter” than you are);
- dry skin and dry brittle hair;
- swollen glands under the jaw from vomiting (“chipmunk cheeks” making your face look fat);
- depression, guilt, fear and mood swings;
- fatigue and cold sweats from fast changes in blood-sugar levels.

The health risks of bulimia are created by mild starvation from dieting and damage to the digestive system from bingeing and purging. The risks include:

- electrolyte imbalance leading to irregular heart beat, heart failure and kidney damage
- laxative dependency (addiction)
- throat damage
- dental problems

stomach rupture

irregular menstruation

Most bulimics cannot break the binge-purge cycle by themselves. It's a sign of strength and wisdom to seek professional care. Treatment may include counseling, medication or both.

Anorexia Nervosa

Some anorexics start out chubby and then, responding to the pressure to be thin, start a restrictive diet. When friends admire their weight loss, they continue to starve themselves and lose weight. Other anorexics attempt to deter normal physical changes (development of thighs, breasts, hips) by restricting their caloric intake. This restriction stops physical development and the anorexic is able to avoid maturation.

There is an estimated 80,000 American women who are anorexic. These women are frequently described as bright, capable, and high-achieving. Because this disorder can be fatal (10% die of starvation or suicide), anorexics need professional care to recover. Parents often have to encourage or even force an anorexic adolescent into treatment. Treatment usually includes hospitalization and counseling.

Symptoms of anorexia include:

wearing baggy, heavy clothes to hide their thinness;

loss of menstrual cycle;

dry, cold skin with downy hair on arms, legs, back, face or chest;

insomnia and hyperactivity;

distorted body image;

extreme, excessive, and rigid exercise routines;

extreme fear of gaining any weight;

strict food rules (such as no liquids at all or no eating without);

strict food rules (such as no liquids at all or no eating without exercise first);

slowed physical and social development

Additional health risks include:

heart failure

kidney failure

suicide

low protein stores (the body stores protein from muscles and organs to fuel basic body needs)

J U S T T H E F A C T S

digestive problems
electrolyte imbalance
Lifelong Recovery

It takes time to fully recover from an eating disorder. People may need two or three years to develop a new relationship with food, themselves, and others. During recovery it is important to avoid the pitfalls of relapse (falling back into old habits). One must learn to cope with minor "lapses" so they don't become full-fledged relapses. Successful recovery includes:

- knowing your triggers, asking for help and having an emergency plan;
- seeking support from family and friends;
- seeking support from self-help groups and professional counselors;
- engaging in healthy exercise;
- practicing good nutrition.

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INHALANTS

Classification:	None
Slang Names:	Solvents, Glue, Laughing Gas, Whippitts, Gas, Nitrous, Blue Bottle, Liquid Incense, Room Deodorizer, Rush, Locker Room, Poppers, Snappers
Methods of Use:	Inhale, sniff
Dependence Potential:	Possible addiction

What are Inhalants?

Inhalants are breathable substances that produce psychoactive (mind-altering) vapors. These substances include: solvents (model airplane glue, nail polish remover, lighter and cleaner fluids, gasoline, typewriter correction fluid); aerosols (hair spray, paints, paint thinners, cookware coating agents); and anesthetics (halothane and nitrous oxide or "laughing gas"). These chemicals are not usually considered drugs because they were developed for other legitimate purposes, however they can be dangerous when purposefully and excessively inhaled.

Two other popular inhalants are amyl nitrate and butyl nitrate. Amyl nitrate is used for heart patients and diagnostic purposes because it dilates the blood vessels and makes the heart beat faster. It is a clear yellowish liquid that is sold in a cloth-covered, sealed, bulb. The bulbs emit a popping or snapping sound when broken; thus they are nicknamed "poppers" or "snappers." Before 1979, amyl nitrate was available without a prescription, but as reports of abuse increased, prescriptions were required. Now, many users have begun to abuse butyl-nitrate which is packaged in small bottles, often marked incense, and sold under a variety of names including "locker room" and "rush". The "high" from butyl nitrate lasts from a few seconds to several minutes. Immediate effects include flushed face, dizziness, decreased blood pressure followed by an increased heart rate and headache.

Patterns of Inhalant Use

Young teenagers are more likely to abuse inhalants, because chemicals used are inexpensive and readily available. Inhalants are mostly taken by groups of young people, usually beginning as part of a fad; and are administered in any one of several methods:

Glues:

are commonly inhaled from a paper or plastic bag. Using the bag increases the intensity of the fumes but it also markedly increases the chances of suffocation;

Industrial solvents, cleaning solutions, and paint thinners:

are generally inhaled directly from the container or by sniffing a cloth or placing a cloth in the mouth;

Gasoline:

is usually inhaled directly from gas tanks;

Aerosols:

may be inhaled directly, but some users try to separate the contents by straining the gases through a cloth.

Inhalants in the Body

Chemical used for sniffing are all fat-soluble, organic substances that easily pass through the blood-barrier and are metabolized in the liver and kidneys. They produce effects that are similar to anesthetics, which act to slow down the body's functions. The "high" begins within minutes and lasts from 15 to 45 minutes. At low doses, users may feel slightly stimulated; at moderate amounts, they may feel less inhibited, less in control, light-headed and giddy; at high doses, a user can lose consciousness.

Short-Term Effects of Inhalant Use

Inhalant users may exhibit several adverse effects including:

- | | |
|---------------------------|------------------|
| nausea | vomiting |
| ringing in the ears | sneezing |
| abnormal heart rhythm | nosebleeds |
| feeling and looking tired | coughing |
| double vision | bad breath |
| irritation of the eyes | poor judgement |
| lack of coordination | chest pain |
| muscle and joint aches | loss of appetite |

How strong these effects are depends largely on the experience and personality of the user, how much is inhaled, and the specific substance used.

Long-Term Effects of Inhalant Use

Extended use of inhalants can cause weight loss, fatigue and an electrolyte (salt) imbalance. Repeated use can permanently damage the nervous system, greatly reducing physical and mental abilities. Also, because inhalants are easily absorbed in the bloodstream and metabolized through the liver and kidneys, long-term sniffing can damage blood, bone marrow, the liver and the kidneys.

Deep breathing of vapors or extended use of inhalants during a short period of time may result in other serious effects such as losing self-control, violent behavior, unconsciousness or death. Sniffing highly concentrated amounts of solvents or aerosols can produce heart failure and instant death. High concentrations of inhalants can also cause death from suffocation by displacing the oxygen in the lungs. Inhalants can also depress the central nervous system so much that breathing slows down.

Tolerance - the need for higher and higher doses of the drug to produce the same effect - seems to develop quickly among inhalant users. As users mature, they may seek other substances such as marijuana, cocaine, and LSD, in order to achieve that high.

Recent studies also indicate that sniffing solvents during pregnancy can cause birth defects. Labeled as Fetal Solvent Syndrome, this condition exhibits such classic symptoms as a small head, deep-set eyes, small midface, disfigured nose and ears, and stubby fingertips.

The primary solvent responsible for these defects is toluene which is found in aerosol spray paints, gasoline and many other popular products.

Signs and Symptoms of Inhalant Use

- Odor on breath and clothes
- Runny nose, sneezing, watery eyes
- Drowsiness
- Poor muscle control

Presence of paraphernalia such as: bags or rags, discarded aerosol cans or whipped cream chargers (signs of nitrous oxide use) or small bottles (signs of butyl nitrate use)

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LSD

Classification:	hallucinogen or psychedelic drug
Slang Names:	acid, LSD-25, microdots, purple mikes, windowpane, blotter
Method of Use:	orally, injected (rare)
Dependence potential:	psychological dependence

Lysergic Acid Diethylamide, LSD, is a derivative from ergot, a fungus that grows on rye and other grains. It was discovered in 1938 and was used in the early 1950s for experimentation by doctors and therapists to treat individuals with mental disorders, alcoholism, epilepsy and terminal cancer. These experiments proved unsuccessful but the interest in LSD grew as reports of its alleged mystical effects peaked curiosity in many. In response to the growing use of LSD, legislators passed laws in the mid-1960s banning the manufacture and use of this drug. However, illegal laboratories and black market dealers were already producing the drug.

LSD is one of the most potent of all drugs because it is active in extremely small amounts. One dose is usually 50 to 300 micrograms which is equivalent to 0.00005 to 0.00003 grams. One ounce is able to supply approximately 300,000 doses. LSD is odorless, colorless and tasteless. It is sold on the street in tablets or capsules. In its liquid form it is placed in or on another substance and allowed to dry. These substances include sugar cubes, postage stamps, "microdots" - tiny balls of compacted powder, "windowpane" - small squares of gelatin sheets or cellophane and "blotter" - small squares of paper. When added to the gelatin sheets or blotter paper it is divided into small squares, with each representing a dose, then the LSD is licked off or swallowed.

LSD users are unlikely to take it while at school, work or home where they might be observed. Especially during the early stages of its use, these drugs are generally taken in a group situation under conditions that will enhance their effect such as at a party.

The Body's Reaction to LSD

LSD is quickly absorbed from the stomach and intestines and effects are felt within 30 to 40 minutes. The physical effects of LSD include dilated pupils, higher body temperature, increased heart rate and blood pressure, sweating, loss of appetite, sleeplessness, dry mouth and tremors.

Within an hour after ingestion of LSD, psychic effects occur which causes a distortion in sensory perception. All of the body's senses are affected by LSD, but vision is affected the most. The color and texture of things become more vivid and perception is increased. Pseudohallucinations - unreal images that the LSD user can distinguish as unreal - are common occurrences. Hallucinations - the user believes an imaginary vision is real - is uncommon at ordinary doses. Synesthesia is also frequent among LSD users. Synesthesia is the occurrence of one type of stimulation that triggers the sensation of another stimulation - such as hearing a sound that causes the visualization of a color. The sensory input to the

LSD user can become so distorted that they may "see" music or "hear" color. Other psychic effects experienced by users include a loss of body image, a loss of a sense of reality, a distorted sense of time, difficulty in concentrating and a short attention span. Users also develop an extreme preoccupation with philosophical ideas and may perceive that they can "solve the problems of the world."

LSD users can experience emotional changes while taking the drugs. They exhibit dramatic mood swings - often going from extreme happiness to deep depression. Minor events - such as the sun going behind a cloud - can trigger these mood swings. Users may also laugh at times of sadness or cry during happy occasions.

Tolerance - the need for increased amounts of the drug to produce the same effect-occurs quickly with the continued use of LSD but disappears quickly when use is stopped. Cross-tolerance - the developed tolerance to one drug due to the use of another drug within its pharmacological class - occurs with the use of other hallucinogens such as mescaline (from the peyote cactus) and psilocybin (from certain mushrooms).

Flashbacks - in which the person spontaneously experiences a drug's effects without taking the drug-can occur without warning for up to a year or longer after the use of LSD. Flashbacks are most likely to occur among frequent users rather than those who seldom used the drug and the longer the time since the use of LSD the less likely the chances of experiencing one. Flashbacks can occur at any time or place and may be initiated by stress or the use of other drugs. The reason flashbacks occur are unknown but it is thought that they may represent behavior learned under the influence of LSD or may be the result of unresolved emotional-psychological conflicts which arose during a "trip."

What is a "Bad Trip"

Acute panic reactions can also occur with the use of LSD. This reaction results in what is referred to as a "bad trip" and the user feels as if they are in extreme danger. These scary sensations may last a few minutes or several hours. The user may experience confusion, anxiety, panic, suspiciousness, a feeling of helplessness and a loss of control. Sometimes, LSD and other hallucinogens can unmask mental or emotional problems that were previously unknown to the user. If the panic reactions become intense, a drug-induced psychosis can occur. This psychosis may be brief or it may last for several years and is almost impossible to predict when, where, or to whom a reaction will occur.

A "bad trip" is generally a confusing and frightening state that will pass in time. When someone is experiencing a panic reaction, do not leave them alone. Remain calm, because they are extremely sensitive to the mood of those around them and may become more fearful if they see others panicking. Try to create a calm atmosphere by turning off bright lights and keeping the room quiet. Reassure the person that what they are experiencing is the result of a drug and the feelings will pass. Talk to them about nonthreatening things such as a pleasant memory or distract them with visual toys or calming music anything that will get their mind out of the panic state. This will help draw the user out of the frightening experience and into a familiar place. Panic reactions can usually be handled by a calm and rational person but if the user becomes uncontrollable, it is best to seek medical or professional help.

LSD and Driving

There are numerous reasons why the combination of LSD and driving are dangerous. The drugged driver's vision is distorted and they may see imaginary objects in the road swerve to miss them, and lose control of the car. Or, a real image may be so distorted that the driver thinks it is an illusion and will not attempt to avoid it - therefore causing an accident. Whatever the case, LSD causes the user to distrust their senses and could result in a serious injury or death.

Signs and Symptoms of LSD Use

The following signs and symptoms are common among LSD users:

- Extremely dilated pupils
- Warm skin, excessive perspiration and body odor
- Distorted sense of sight, hearing and touch
- Distorted sense of time, self and place

Mood and behavior changes, the extent depending on emotional state of the user and environmental conditions

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MARIJUANA

Classification:	Depressant, Hallucinogen
Slang Names:	Dope, weel, herb, grass, pot, hashish, hash
Method of Use:	Smoking, eating, and intravenous injection
Dependence Potential:	Psychologically addictive

What is Marijuana?

Marijuana is the common name for a crude drug made from the plant *Cannabis Sativa*. The main mind-altering (psychoactive) ingredient in marijuana is THC (delta-9-tetrahydrocannabinol). More than 400 other chemicals also are in the plant. A marijuana cigarette or "joint" is made from the dried particles of the plant. The amount of THC in the marijuana determines how strong its effects. Marijuana available today is as much as ten times more potent than marijuana used in the early 1970s.

What is Hashish?

Hashish is a concentrated form of marijuana made by taking resin from the leaves and flowers of the marijuana plant and pressing them into cakes or slabs. Hash is mostly smoked in a pipe rather than rolled into a cigarette. It is usually stronger than crude marijuana because it contains five to ten times as much THC. Hash oil may contain up to 50 percent THC.

Marijuana in the Body

When marijuana is smoked, it travels down the windpipe and into the lungs. Once in the lungs, the smoke passes through the bronchi and into the alveoli (air sacs) where the THC passes into the bloodstream. THC is then absorbed by most tissues and organs in the body, especially fat cells and organs such as the brain. The "high" reaches its peak in approximately 10-30 minutes and will last from two to eight hours, depending on the amount of marijuana used.

It takes a week to one month for all the chemicals from one marijuana cigarette to leave the body. As more marijuana is smoked, THC accumulates in the cells and the body is never drug free. When chronic users stop using marijuana, it takes about three months for the accumulation of THC to leave the body.

When marijuana is eaten, it enters the stomach and is broken down for digestion by enzymes. At this time, THC passes into the bloodstream. Smoking marijuana puts 5-10 times more THC into the body than eating it.

Signs and Symptoms of Marijuana Use

Loud talking and bursts of laughter in early stages of intoxication
 Drowsiness or stupor in later stages of intoxication
 Forgetfulness in conversation
 Chronic redness of the eye
 Odor similar to burning rope on clothing or breath
 Decrease in school or work performance; truancy
 Neglect of personal hygiene
 Change of friends
 Paranoia, defensiveness, secretiveness, self-centeredness
 Depression
 Mood swings
 A motivational syndrome
 Distorted sense of time

Use or possession of paraphernalia such as cigarette rolling papers, "roach" clips (used to hold the cigarette), and pipes or a "bong" (a water pipe for cooling smoke so the user can inhale more)

Immediate Effects of Marijuana

Immediate physical effects of marijuana are elevated heart and pulse rates, bloodshot eyes, and a dry mouth and throat.

Marijuana impairs or reduces short-term memory, alters one's sense of time, and reduces the ability to do things which require concentration, swift reactions, and coordination. Experiments have shown that marijuana affects a wide range of skills needed for safe driving. These skills are impaired for a least 4-6 hours after smoking a single marijuana cigarette, long after the "high" is gone. Thinking and reflexes are slowed, making it hard for an impaired driver to respond to sudden, unexpected events. A driver's ability to steer properly, brake quickly, and maintain speed and proper distance between cars is affected, according to research.

Long-Term Effects of Marijuana

Marijuana and its potent chemical THC cause cell abnormalities, alter normal cell division, affect genetic make-up of new cells and lower cell immunity, increasing the possibility of viral infections among users.

THC causes enlargement of the area between nerve cells, resulting in poor transmission of nerve impulses between these cells. This "tampering" has several effects on the nervous system including:

Impaired speech
 Difficulty in comprehending complex ideas
 Loss of memory

Difficulty in concentrating or focusing on one subject
 Irregular sleep habits; insomnia
 Mood swings
 Lack of body coordination
 Decrease in muscle strength
 Blurred vision and impaired visual perception

Marijuana is harmful to the entire respiratory system from the sinus cavities to the air sacs within the lungs. Marijuana smoke is more harmful than tobacco smoke, and users have a much higher incidence of respiratory disease than nonusers. Other respiratory problems associated with marijuana use are:

Sinusitis - an inflammation of the lining of the sinuses, which is a result of smoke irritation to the nostrils.

Bronchitis - an inflammation of the bronchial tubes which take air from the windpipe to the lungs. Chronic marijuana users often cough up yellowish-green mucus which may be tinged with blood.

Lung cancer - marijuana smoke contains more cancer-causing chemicals than tobacco smoke. Smoking three to five marijuana "joints" a week is equivalent to smoking 16 cigarettes every day.

Smoking one marijuana cigarette has the immediate effect of increasing heart rate and blood pressure as much as 50 percent. Marijuana increases the amount of toxic carbon monoxide in the blood, thereby reducing the amount of oxygen which reaches the heart. Increased blood pressure and changes in the blood vessels are reflected by the typical red or bloodshot eyes of the marijuana user.

Chest pains have been attributed to marijuana use. People who suffer from angina, high blood pressure, diabetes, or other heart problems take an even greater risk smoking marijuana.

Marijuana can have far-reaching effects on the reproductive systems of both males and females.

Effects on males:

Decreased masculinity. Use of marijuana results in lowered levels of the male hormone testosterone. This hormone is essential for the development and support of male secondary sexual characteristics such as hair growth, voice tone, and muscle distribution.

Impotency. Male users of marijuana may experience an inability to function sexually.

Infertility. Moderate to heavy marijuana use, especially among 12 to 17 year-olds, can result in decreased or zero sperm production. Studies indicate increased production of abnormal sperm among users, which can result in birth defects in offspring.

Effects on females:

Decreased femininity. Marijuana use by females increase the amount of testosterone in the body, causing an increase in acne and such male characteristics as body and facial hair, and flattening of the breast and buttocks.

Infertility. Use of marijuana may interrupt the menstrual cycle and interfere with reproductive health and fertility. THC can cause irreversible damage to the supply of eggs from the ovaries.

Pregnancy complications. Research suggests that using marijuana during pregnancy may result in premature births, low-birth weights, birth defects and an increased infant mortality rate. Nursing mothers can transfer THC to their babies through their breast milk.

Other Effects of Marijuana

Chronic use of marijuana acts as an escape from stress, allowing the user to block out pain, frustration or confusion. However, as the user repeatedly uses marijuana to escape, he becomes less and less able to cope with everyday challenges. This behavior is known as the amotivational syndrome. Chronic users lose interest in achieving goals and instead become moody, easily fatigued, depressed, and experience difficulty in coping with stressful or complex situations.

Similar to the amotivational syndrome, burnout is the effect of prolonged marijuana use. Heavy users become dull and inattentive and sometimes unaware of their surroundings. They often do not respond when spoken to and do not realize they have a problem.

A common negative reaction to marijuana is the "acute panic anxiety reaction." People describe this an extreme fear of "losing control," which causes panic. Symptoms usually disappear within five to eight hours.

Gateway Drug

Marijuana is considered to be a gateway drug. This means marijuana users tend to move on to more harmful drugs such as cocaine, heroin or LSD. Evidence shows that 60 percent of marijuana users go on to use harder drugs while the odds against non-users trying other substances are 98 to 1. A survey of heavy marijuana users showed that 74 percent have also used cocaine. However, there is no conclusive evidence that marijuana causes the use of more potent substances.

When marijuana is combined with other drugs such as alcohol, the effects of each are compounded and become several times more harmful.

While marijuana may not be physically addictive, regular users can develop a psychological dependence. Those who are psychologically dependent have difficulty limiting their use of the drug and can experience side effects such as insomnia and irritability when denied access to marijuana.

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NUTRITION

Helping the High-risk Teen

Nutrition plays an important role in how well our children learn, concentrate, get along with others and play. Energy levels and moods vary with the types of food we eat, and this is especially true for adolescents. The physical changes that occur during this period of rapid growth increase nutrient needs at a time when many teens are skipping meals, snacking, eating away from home and sometimes relying on unconventional diets.

For the high-risk adolescent, the teen on his or her own or from a dysfunctional family, or one who is exhibiting delinquent behaviors, nutrition is especially important as a physical stabilizer: the more well-balanced the body, the easier it is to balance the behavior.

The adolescent's search for independence and identity, his desire for peer acceptance, and his preoccupation with physical appearance may affect eating habits, food choices and, consequently, nutrient intake. Recent research indicates that many foods and some food additives can cause clinical disorders like headaches, rashes, hyperactivity, asthma, depression and general irritability in many people. For example, 70% of people suffering from migraines who were studied at the National Hospital for Nervous Disorders in London were found to be allergic to certain foods. Elimination of these foods from their diets brought almost total relief from the migraines in only two weeks.

Behavior problems can also be contributed to the foods we eat. Food intolerances have been found to play a role in delinquency. Milk craving, for example, has been shown to result from an addictive allergy which leads to aggressive behavior. Knowing this, it is not surprising to discover that researchers have demonstrated that many juvenile delinquents consume up to six quarts of milk daily.

In research on children between three and 16 years of age who suffered from severe and frequent headaches, 93% stopped having headaches when they were put on a rotating, controlled nutritional plan.

Why Balance is Important

To stay healthy, our bodies need about 40 different nutrients every day. These nutrients work in combination with each other. Most foods contain some nutrients, but no single food insures that we don't get too much or too little of a particular nutrient. Too much can be as bad as too little, especially certain vitamins or minerals. Most of us have too much sugar, salt and fat in our diets, and this is particularly true of teens who often skip or miss meals, and frequently rely on snacks and fast foods.

It is estimated that 17% of the US teen population is at nutritional risk. Girls are often at risk because they require fewer calories to maintain weight and may lack proper nutrients in their diets. Boys tend to require more calories but may lack proper nutrients because of poor food choices. Nutrients most lacking in the adolescent diet are calcium and iron. Vitamins A, B-6, zinc, and magnesium are also often in short supply in the diets of adolescents.

As parents and caregivers, we have very little control over what our adolescents eat, especially the high-risk teen, even if they are at home at mealtime. But we can see that the right foods are available to our teens, and we can teach them how to make smart food choices from the Four Food Group Plan.

Basic 4 Foods Every Day

- 4 servings of fruits/vegetables
- 4 servings from the bread/cereal group
- 2 servings of protein (meat, fish, poultry, or beans)
- 4 servings of milk/dairy products

The meal adolescents most frequently eat is dinner or the evening meal. This is an opening to provide essential nutrition and to offer at least one close family activity. It's not a bad idea to make dinner together a household rule!

Balancing our diets takes care of more than our physical health. If we take the few extra minutes to prepare a wholesome meal and pull the family together, we've begun to take care of our family's need to interact and share. Thinking about what we eat also begins a wonderful habit of thinking about our overall well-being.

For the adolescent at risk, this family meal may not be a reality, but given some nutritional information, the adolescent at risk can take the lead and pull together other siblings for some semblance of a "family meal."

We can also exercise some control by creatively and wisely choosing the type of snacks we keep on hand. Nutritious snacks can make a beneficial contribution to the total nutrients often lacking in teens' diets. According to USDA survey data, snacks are responsible for an increased intake of calcium, magnesium, vitamin B-6 and iron.

Try Something Different

Cookies, hamburgers, pizza, and other things our adolescents love can stay on the table, but here are some new things, too. Feeding your family balanced meals doesn't mean spending more money on food or more time buying and preparing it. Balance means cutting down on fatty and sugary foods and offering more complex carbohydrates that give energy, not just empty calories.

Suggestions

Fresh foods are great, though they are seasonal and can be difficult to keep on hand. Buy lots of what is affordable and in season and freeze some. If you can't buy fresh fruits and vegetables, buy frozen ones. Canned foods are next best, though try to buy those with low salt and no added sugar.

What's good for snacks. Snacks like potato and taco chips, bagged cookies and granola bars are expensive and have lots of salt, sugar and fat. We can do better by buying nutritious snacks like raisins, unsalted sunflower seeds, celery sticks (great with peanut butter or other nut butters spread on them), nuts (plain and unsalted, not fancy mixes), dried fruit, carrots, and plain crackers. Pick up snacks like popcorn (easy on the butter and salt!), rice cakes, cheese, or sesame sticks...snacks offering variety and nutrition. The younger you start a child on healthy snacks, the better!

Frozen dinners, packaged lunch meat. Though they save time, frozen dinners are hard on the food budget. Packaged lunch meats are also expensive. Try buying a small ham or a turkey breast and slicing it up instead. Freeze leftovers to make another day's meal preparation faster and less expensive.

Protein means more than just meat. Beans are an excellent and inexpensive source of protein.

Spruce up simple foods like rice and pasta with onions, peppers, and other spices.

Closing Tip

Independence is a goal of adolescence! Food is one area used to express this goal. The positive role model can help make this search for independence a rewarding experience by providing a wide variety of healthy foods. This can result in a "win" for both parents and adolescents: the adolescent exercises his right to select a diet, and the adult provides the foundation for making good choices!

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OPIATES

Classification:	Narcotic
Slang Names:	Heroin - dope, H, junk, scag, smack, brown sugar, Mexican mud, horse Codeine - Schoolboy Dilaudid - big D, D's, dillies, stuff, pills Morphine - dope, M, Miss Emma, mud, sister
Method of Use:	orally, injected, inhaled, smoked
Dependence Potential:	physically and psychologically addictive

What are Opiates?

Opiates are central nervous system depressants which are often used medically to relieve pain. They are from a resin taken from poppy plants found in countries throughout the world, including Mexico, Turkey, India, China, Burma and Yugoslavia. This resin can be converted into opium, heroin, codeine and morphine. Other opiates such as meperidine (Demerol), Darvon, Percodan, Dilaudid, Talwin and Methadone are synthesized or manufactured by modifying the chemicals found in opium.

Opiates have a high potential for abuse and are found in a variety of forms including: powders, liquids, tablets, syrups, and prescription from a physician such as morphine, codeine and dilaudid. These drugs are used to relieve pain, cough and diarrhea. Other opiates are popular "street" drugs such as heroin—the most potent and commonly abused opiate.

Opiates are usually taken orally except in the case of heroin which is in powder form. Heroin users generally begin sniffing the drug and then gradually advance to injecting it. The powder is dissolved in water and heated in order to reduce it to a liquid form. The user then injects the substance either subcutaneously or intravenously. Subcutaneous injection ("skin popping") is when heroin solution is injected into the layers of skin—usually in the arms or thighs. Intravenous injection ("mainlining") is when the heroin is injected into a vein. When injecting, the effects of heroin are felt within minutes and last between three to four hours—depending on the dosage.

Street heroin can be a white or brownish powder and is usually diluted or "cut" with other substances such as sugar, powdered milk or quinine in order to increase the bulk amount sold to the user.

Psychological Effects of Opiates

Like other depressants, opiates produce a tranquil and euphoric effect. Users who inject an opiate such as heroin may also experience a "rush" as the drug circulates through their system. Some users combine opiates with a stimulant such as cocaine. This is called "speedballing." The stimulant is supposed to keep the user from falling asleep from the effects of the opiate, and the opiate is supposed to reduce the hyperactive effects often caused by stimulants.

Psychological dependence is probable with continued use of opiates. When someone becomes dependent, finding and using the drug become their main focus. Opiates also induce tolerance—the need for more of the drug in order to produce the same effects.

Physical Effects of Opiate Use

The physical effects of opiates depend on the opiate used, its source, the dose and the method in which it is used.

Opiates slow down breathing, heart rate and brain activity and depress areas of the brain which control appetite, thirst and sexual desire. The body's tolerance to pain is also increased.

The dangers of opiates are generally caused by using too much of the drug, contamination of the drug, combining several drugs, or using unsterile needles when injecting the drug. Use of unsterile needles can lead to hepatitis, tetanus or AIDS.

Regular opiate users who abruptly stop using the drug will experience withdrawal symptoms that usually begin 4-6 hours after the last dose. Symptoms include uneasiness, diarrhea, abdominal cramps, chills, sweating, nausea, runny nose and eyes, irritability, weakness, tremors and insomnia. The intensity of these symptoms depends on how much of the drug was taken, how often and for how long. These symptoms are usually strongest 24-72 hours after they begin and can persist for 7-10 days. Sometimes sleeplessness and craving for the drug can last for several months.

Opiates are also harmful to a developing fetus. Pregnant women who are dependent on opiates have a higher risk for spontaneous abortions, breech deliveries, premature births and stillbirths. Babies born to opiate-addicted mothers often have withdrawal symptoms similar to adults. These symptoms may last several weeks or months. Researchers have also found an increased risk of Sudden Infant Death Syndrome (SIDS) among babies born to heroin-addicted mothers.

Treating Opiate Addiction

The following are basic approaches to treating opiate addiction:

Detoxification - supervised withdrawal from the drug in a hospital or on an outpatient basis

Therapeutic Community - patients live in a highly structured, drug-free environment

Outpatient Drug-free Programs - which emphasize various forms of counseling such as group or individual

Methadone Maintenance - patients receive methadone daily as substitute for heroin. Methadone is taken orally and is active for more than 24 hours. (The effects of heroin usually last four to six hours.) Methadone does not produce the

same high as heroin; however, it does prevent craving for the drug and withdrawal symptoms, thus allowing the patient to concentrate on recovering.

Naltrexone - is a nonaddicting, long-acting adjunctive medication that is used to maintain abstinence in patients detoxified from opiates. It blocks the euphoric effects of opioids, thus preventing the redevelopment of opiod dependency. Recently, researchers have found that combining clonidine, a drug used to treat high blood pressure, with naltrexone, may help the patient tolerate withdrawal symptoms while on naltrexone. Usually, patients suffer from withdrawal symptoms for 2-4 weeks. Patients treated with the clonidine/naltrexone combination experience acute symptoms for only the first half day of treatment.

LAAM (L-Alpha-Acetyl-Methadol) - is often called "long-acting methadone" because its effects last two to three days between oral doses. The development of LAAM began in the 1970s, but its manufacture was blocked by legal, political and economic problems. Tbday, LAAM is considered an "orphan" drug and awaits sponsorship by a pharmaceutical company for production.

Signs and Symptoms of Opiate Use

The following are signs and symptoms often associated with opiate use:

- Lethargy, drowsiness
- Constricted pupils and reduced vision
- Shallow breathing
- Needle or track marks on inner arms or other parts of the body from injecting needles
- Redness and raw nostrils from sniffing heroin
- Excessive perspiration, shaking, vomiting, chills or other withdrawal symptoms
- Use or possession of paraphernalia including syringes, bent spoons, bottle caps, eye droppers, rubber tubing, cotton and needles

For More Information:

Florida Alcohol and Drug Abuse Association Clearinghouse
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PCP

Classification:	Hallucinogen; Anesthetic
Slang Names:	Angel Dust, Killer Weed, supergrass, crystal, cyclone, elephant tranquilizer, hog, embalming fluid, KJ, peace pill, PeaCe Pill
Method of Use:	swallowed, smoked, sniffed, injected
Dependence Potential	psychologically addictive and may be physically addictive

What is PCP?

PCP (Phencyclidine) is a synthetic drug that was first developed as an anesthetic agent for surgery in the 1950s. It was soon taken off the market for human use because of its unwanted side effects. Today, its only legal use is in veterinary medicine.

PCP is notorious for its variety of effects - acting at times as a stimulant, depressant or hallucinogen - and for its unpredictability. In spite of its bad reputation, PCP remains popular on the street. It is cheap, often masqueraded as other street drugs such as THC, the active ingredient in marijuana, and is easy to make. Many underground laboratories are producing the drug, selling it, and making an attractive profit. As a result, users can never be sure of what they are actually buying since it is manufactured illegally.

PCP comes in several different forms - in its original form as a white or yellowish-white powder, as a tablet, or as a capsule.

Different methods of use induce different effects. The most popular method of use is smoking marijuana, parsley, or tobacco sprinkled with PCP powder. Users find they can control the effects of PCP better this way. PCP can be taken orally by capsule or tablet and usually means getting larger doses of the drug. Snorting or injecting low doses of PCP produces a "rush" and enhances the anesthetic effects of the drug. Many users take PCP without knowing what they're taking, while others choose to use PCP regularly. PCP is a powerful drug, even in small doses, and as all psychoactive (mind-altering) drugs, effects may vary depending on the amount taken, how it is taken, and who's taking it.

The Effects of PCP Use

When taken orally, PCP produce a high that can last between 5 and 8 hours. When smoked or injected, effects can last any where from 3 to 5 hours. The high itself is hard to describe - users generally report a variety of physical and psychological effects. The drug seems to disassociate the user from reality - it feels as if the user is in a fantasy world - sometimes pleasant, sometimes not.

Physical effects of PCP in small doses causes sedation, numbness of the extremities, loss of muscle coordination, and dizziness. Users tend to have a blank stare or experience involuntary rapid eye movements accompanied by blurred or double vision. Users may also

experience flushing, profuse sweating, nausea, vomiting and an increase in heart rate, blood pressure and breathing rate.

In larger doses, PCP's painkilling and anesthetic qualities are prevalent. There is a significant drop in blood pressure, breathing and heart rate. Users appear drunk because they are so uncoordinated. They may experience shivering, increased salivation, watery eyes, loss of balance, dizziness, muscular rigidity, and exhibit repetitive movements such as rocking back and forth. Their speech is often confused and their vision may be distorted. For the next few hours, thinking, remembering, and making decisions can be very difficult.

At high doses, PCP users become extremely agitated which is commonly followed by seizures or coma. The coma can last for a few days to several weeks. These symptoms mimic the agitation, delusions and mental confusion exhibited by individuals suffering from schizophrenia. Massive PCP overdoses can kill.

PCP users may experience "trips" that last from one to six hours. At the beginning of a PCP trip, users report feeling as if they are outside of their body. They have a distorted image of themselves and their surroundings. As the trip progresses, they begin to hallucinate, become confused and lose track of time and space. During this time, some users may become aggressive and violent while others may withdraw and have difficulty communicating. In the final stages, users may become depressed, irritable and alienated from their surroundings.

Other Dangers of PCP Use

More PCP users have died from accidents caused by the anesthetic qualities and the strange behavior associated with this drug than from the actual chemical effects of the drug.

Because PCP is an anesthetic, it deadens feelings in the extremities, making it almost impossible for users to feel any pain. Cuts, burns, bruises and broken bones go undetected until the drug has worn off. Therefore, users could die in a fire because PCP has made them insensitive to the burning. Or, they may bleed to death - never realizing they were even cut. There have been reports of PCP users falling off of roofs and out of windows because of the intoxicating effects - or users drowning because they were so disoriented that they did not know which way was up. Because PCP can produce violent behavior, users have been known to assault others or injure themselves-sometimes resulting in murder or suicide.

Long-term Effects of PCP Use

Prolonged users of PCP regularly experience disturbances in judgment, memory, concentration and perception even after they have stopped using the drug. They report speech problems as well as hearing voices and sounds that don't exist. Chronic users may have flashbacks (experiencing a drug's effects without taking the drug) and are subject to recurring bouts of anxiety and depression. Some past users have also exhibited outbreaks of violent behavior and PCP-induced psychoses (a disturbance of the user's thought processes).

Signs and Symptoms of PCP Use

The following are signs that may indicate the use of PCP:

- unpredictable behavior; mood swings
- intoxication
- disorientation; agitation
- violent, aggressive behavior
- fear, terror, shivering
- blank stare
- rigid muscles
- pupils may be dilated
- mask-like facial appearance
- floating pupils - appear to follow a moving object
- comatose if large amounts consumed; eyes may be opened or closed

For More Information:

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STERIODS

Anabolic Steroids are synthetic forms of the male sex hormone testosterone. Testosterone has many jobs in the body including stimulating the development of bone, muscle, skin, hair growth, lowering of the voice, and emotional responses. When too much testosterone is produced, the body reacts in several ways such as shutting down skeletal growth mechanisms. This can result in stunted growth, shriveled testicles, lowered sperm counts or balding. Women naturally produce very little testosterone. Consequently, when they take anabolic steroids they develop masculine characteristics—some of which are irreversible.

Steroids were originally developed in the 1930s to help maintain strength in aging men and to help those men whose bodies did not produce adequate amounts of natural testosterone. Athletes began using anabolic steroids more than 30 years ago after East Europeans and Russians dominated an international sporting event. It was later discovered that these athletes had used testosterone to strengthen themselves.

In 1960, Dr. John B. Ziegler, a Pennsylvania physician, became interested in weight training and began to experiment with steroids. He discovered that the use of steroids would somehow increase the utilization of protein in the body and form additional muscle in those who trained their bodies and were well nourished. In time, he found that he had increased his muscular size and strength at a greater rate than if he had only lifted weights and eaten heartily. The craze for steroids began after he reported his findings in a weight-training magazine.

Steroids are a controlled substance in the United States—meaning a prescription is required to obtain this drug. Physicians soon became inundated with requests for prescriptions from weight-lifters, football players, shot putters and other athletes—all hoping to improve their performance, shorten their training hours or accelerate their physical development. At first, physicians were more than willing to prescribe steroids. Dr. Robert Voy, chief medical officer for the U.S. Olympic Committee, conducted a small study that indicated 30-40% of the steroids used by body builders came from physicians. This figure has dropped since reports of the serious side effects of the drug and also because there is little evidence to show the benefits of using steroids.

In 1980, Dr. Alan J. Ryan, editor of *Physician and Sportsmedicine*, reviewed 25 cases in which steroids were administered to increase strength. He found many inconsistencies among the studies and concluded that there was not substantial evidence that the use of anabolic steroids in conjunction with weight training would increase muscular size and strength. However, there was strong evidence that anabolic steroids did not contribute significantly to muscular growth and strength in healthy males, and the presumed increase of muscle tissue was due to the steroids causing the body to retain salt and water. This water retention causes the user to gain weight and exhibit what many bodybuilders have labeled "that puffy look." The users usually look puffy around the face, neck, and lower body—athletes and experts know that normal muscle gain looks anything but puffy.

In a 1987 issue of *Clinical Pharmacy*, researchers Michael W. Kibble and Mary B. Ross reported that steroids increase muscle mass and strength "only in persons who are already weight-trained and who continue intensive training while maintaining a high-protein, high-calorie diet.

Athletes who do use steroids and actually increase their muscle size and strength do so as a result of two factors: a) they have probably been training harder, and b) the belief that the drug will produce the desired effect; thus the "placebo" effect takes place. A placebo contains no medical benefit and is used more for a psychological relief for the perceived problem. The athlete believes that the drug is doing all the work but, actually, they are training harder which is producing the desired effects.

It has also been noted that the use of steroids to gain muscle and strength does not necessarily mean the strengthening of tendons and ligaments. This imbalance could result in a serious injury.

Side-Effects and Adverse Reactions

There are over 70 side effects of steroid use ranging from liver cancer to acne. The liver, cardiovascular and reproductive systems are the hardest hit by steroids. Effects also encompass psychological reactions. These reactions include depression and aggressive behavior often called "roid rage." Side effects may not show up for years, such as heart attacks or strokes, and some may not be recognized, such as stunted growth. Other effects include:

acne	cancer
cholesterol increase	heart disease
water retention	high blood pressure
jaundice	liver disease
male pattern baldness	shrunken testicles
prostrate enlargement	sterility
stunted growth	kidney damage

Women experience side effects (some of which are irreversible) such as a lowered voice, growth of facial and chest hair, menstrual irregularities, breast reduction, fetal damage and sterility.

Other Possible Reactions to Steroid Use

Listed below are additional side effects that users may experience.

- anaphylactic shock or septic shock from using injections (blood poisoning)
- abdominal or stomach pains
- black, tarry or light-colored stools
- bone pain and muscle cramps
- chills

diarrhea, nausea, vomiting (sometimes vomiting blood)
 depression, fatigue, listlessness
 dark-colored urine (in mature males—a frequent urge to urinate)
 fever
 headache (continuing)
 insomnia
 hives, rash
 unnatural hair growth
 sore tongue
 feeling of abdominal or stomach fullness

Signs of Steroid Use

Athletes using steroids can be identified by:

quick weight and muscle gains
 purple or red-colored spots on the body
 swelling of feet or lower legs
 trembling
 unexplained darkening of the skin
 bad breath
 increased aggressive behavior (“roid rage”)

Conclusion

Today, efforts are being taken to deter the use of steroids. The Food and Drug Administration, the U.S. Justice Department and the Customs Service are cracking down on the steroid black market. Athletes, body builders, and other sports officials are denouncing the use of steroids. The National Football League recently began suspending players that tested positive for the use of the drug. Champion bodybuilders and wrestlers are encouraging new comers to avoid steroids, as Lee “Mr. Olympia” Haney notes, “You’ll ultimately make your best body-building gains if you avoid steroid usage and just concentrate on hard training and good nutrition.”

For More Information:

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TOBACCO

Classification:	Mild stimulant
Method of Use:	Smoked, Orally, Inhaled
Dependence Potential:	Physically and psychologically addictive

What is Tobacco?

Tobacco is a plant which grows in a wide range of soil and climate conditions. Its nonedible leaf is dried and used to produce cigarettes, pipe tobacco, cigars, chewing tobacco and snuff.

Tobacco contains over 4,000 different gases, particles and compounds including tar, nicotine and carbon monoxide. Tobacco smoke "tar" is composed of several thousand chemicals that can damage lung tissue and cause several diseases. Some of these chemicals include: acids, alcohols, aldehydes, ketones, aromatic hydrocarbons and corrosive gases such as cyanide and nitrogen oxide.

Nicotine is found only in tobacco. It acts as a mild stimulant to the central nervous system and is what causes the addiction to tobacco products. Like other stimulants, nicotine makes blood vessels constrict, causing an increase in the heart rate and blood pressure and decreasing the user's appetite. In new smokers, nicotine often causes nausea. In large doses, nicotine can also cause tremors, quickened breathing and a decrease in the production of urine.

Carbon monoxide, which makes up about four percent of tobacco smoke, impairs the oxygen-carrying capacity of the blood to the body's tissues, literally driving the oxygen out of the red blood cells. At the same time nicotine is causing the heart to work harder, it is depriving the heart of the extra oxygen it needs. Carbon monoxide also promotes cholesterol deposits in arteries, impairs vision and judgment, and reduces attentiveness to sounds.

Cigarettes, Pipes and Cigars

Smoking is the single largest preventable cause of premature death and disability in the United States and is related to 390,000 deaths each year. According to the American Cancer Society, the average smoker consumes about a pack and a half of cigarettes a day at a cost of \$900.00 a year.

Costs for medical care related to smoking are estimated at \$22 billion annually, and the cost to the economy from lost productivity is about twice as much as direct health care costs.

The moment the smoke from a cigarette, pipe or cigar is inhaled, it attacks the tissues of the mouth, tongue, throat, esophagus, air passages and lungs. In the lungs, most of the inhaled compounds are retained. Once nicotine is absorbed into the lungs, its effects reach the brain within six seconds - twice as fast as mainlining heroin.

Smoking can produce a feeling of well being in habitual users; however, smoking releases epinephrine, a hormone which creates physiological stress in the smoker rather than relaxation.

Low Tar/Nicotine, Filtered and Mentholated Cigarettes

Research shows that there is no "safe" cigarette; however, the American Cancer Society suggests that those who cannot quit smoking should switch to brands with low tar and nicotine (T/N). Low T/N smokers seem to find it easier to quit smoking altogether than high T/N smokers, and research indicates that the mortality rate of low T/N smokers is 16% lower than that of high T/N smokers.

Yet, it is important to remember that low tar and nicotine cigarettes contain other poisonous compounds. Many low T/N brands have reduced taste. In an effort to satisfy smokers, manufacturers add a variety of flavoring compounds, some of which are known to be carcinogenic (cancer-causing) or toxic.

Filtered cigarettes have been shown to reduce the risks of lung cancer in smokers; however, some brands have been found to produce more carbon monoxide than unfiltered cigarettes, thereby increasing the risks of heart disease.

Mentholated cigarettes produce a cool sensation in the throat when smoke is inhaled. Research so far has not shown if menthol has any effect on the risks of cigarette smoking.

Smokeless Tobacco

The use of smokeless tobacco is increasing, especially among young males. Recent reports from the American Cancer Society indicate that smokeless tobacco is used by at least 12 million people in the United States, half of these regular users.

There are two types of smokeless tobacco: chewing tobacco and snuff. Chewing tobacco is used orally and is treated with "saucing compounds" which contain sugar, honey, or molasses and flavorings such as licorice. Users usually put a golf ball-size wad of tobacco in the pouch of their cheek and suck on it. The user spits frequently to get rid of the tobacco. Snuff is processed into a coarse, moist powder and is "dipped" or placed between the cheek and gum where it stimulates the flow of saliva and mixes with it. Again, the user spits frequently to get rid of the snuff. Snuff can also be inhaled through the nose. Nicotine from the tobacco is readily absorbed in the mouth and nose and distributed throughout the body. Users become as addicted to nicotine's effects as smokers do.

Health hazards associated with smokeless tobacco include: white patches in the mouth (leukoplakia); a diminished sense of taste and smell; dental problems such as receding gums, tooth discoloration, weakened tooth enamel and bad breath; and an increased risk of cancers of the mouth. Another negative aspect is that smokeless tobacco users often turn to cigarettes because nicotine gets into the system faster when it is inhaled in cigarette smoke.

Passive Smoking

Passive or second-hand smoking is the involuntary inhaling of tobacco smoke by nonsmokers in a smoke-filled atmosphere. These nonsmokers inhale a great deal of side-stream smoke - smoke that is not drawn through the cigarette. Side-stream smoke contains much higher percentages of tar, nicotine, and noxious gases than the smoke that is exhaled by a smoker.

To some, second-hand smoke causes breathing difficulties; to others it may set off a severe allergic reaction. A report from the National Academy of Sciences says that about 2,400 lung cancer deaths a year may be caused by second-hand smoke. Other studies have found that nonsmoking wives of smoking husbands have a 35 percent higher risk of lung cancer compared with women whose husbands don't smoke.

Children in households where one or both parents smoke have a greater chance of developing certain illnesses such as colds, bronchitis, pneumonia, chronic coughs, ear infections, allergic reactions and reduced lung function. As with adults, the more smoke a child is exposed to, the higher the risk is that the child will develop complications. Also, children who grow up in homes with parents who smoke are twice as likely to become smokers themselves.

In the workplace, smoke can spread throughout the office and each workday is enough time to expose coworkers to the risk of second-hand smoke. Many business and industries have begun to restrict smoking to certain areas in an effort to combat these health hazards.

Long-Term Effects of Tobacco Use

The use of tobacco has been implicated in cancers of the mouth, larynx, pharynx, esophagus, pancreas, cervix, uterus and bladder. Smoking accounts for approximately 30 percent of all cancer deaths, is a major cause of heart-disease, and is linked to colds, gastric ulcers, chronic bronchitis, and emphysema. The American Cancer Society estimates that smoking cigarettes accounts for 85 percent of lung cancer cases among males and 75 percent among females.

Tobacco and The Lungs

In the lungs, cancerous agents of tobacco smoke attack tissue and tiny air sacs where the oxygen/carbon dioxide exchange takes place. As damage to the lungs continues, breathing capacity is destroyed, leading to emphysema. Emphysema is a noncancerous lung disease that destroys the elasticity of the lungs and impairs its ability to inhale and exhale properly. Tissue affected by emphysema can be repaired or replaced, and the smoker eventually has to gasp for breath. Emphysema kills approximately 16,000 Americans each year.

Lung cancer begins with the constant irritation of smoke on the lining of the bronchi. These hairlike cilia which filter air disappear from the lining and a mucus is secreted to take its place. This mucus then becomes trapped and is forced out of the lung by "smoker's cough."

If a smoker gives up smoking before cancerous cells are present, the bronchial lining can repair itself. If its abnormal cell growth has begun, the cancer will spread, blocking the

bronchi and attacking other lung tissue. As the cancer progresses, the abnormal cells break loose from the lung and are carried by the lymphatic system to other vital organs, where new cancers begin.

The five-year survival rate for lung cancer is less than ten percent. The disease is rarely detected early enough for cure because lung cancer often shows no symptoms until it is far advanced.

Tobacco and the Heart

The American Heart Association estimates that about one-fourth of fatal heart attacks are caused by cigarette smoking, about 120,000 heart attack deaths per year.

Tobacco smoke is a major independent risk factor for fatal and non-fatal heart attacks in both men and women. The risk of heart attacks, strokes, and blood clots increases tenfold for women who both smoke and use oral contraceptives.

Smoking and Pregnancy

Tobacco has significant adverse effects for pregnant women. Smoke in the mother's bloodstream alters the heart rate, blood pressure, oxygen supply, and acid balance of the unborn child. An expectant mother who smokes two packs a day blocks off the equivalent of 25 percent of the oxygen supply to the fetus.

Pregnant smokers experience more stillbirths, spontaneous abortions, premature births, and low-weight babies than nonsmoking mothers. Children born to mothers who smoke during pregnancy may have measurable deficiencies in physical growth, learning disabilities, birth defects and chronic breathing difficulties.

Dependency and Withdrawal

The use of tobacco is addictive. According to the National Institute on Drug Abuse (NIDA), most users develop tolerance to nicotine - the need for greater amounts to produce a desired effect. Smokers become physically and psychologically dependent, and will suffer withdrawal symptoms when use is stopped. The severity of the symptoms differs from person to person. Generally symptoms subside in about seven days, but may last for weeks or months. Physical withdrawal symptoms include changes in body temperature, heart rate, digestion, muscle tone and appetite. Psychological symptoms include irritability, anxiety, sleep disturbances, nervousness, headaches, fatigue, nausea and a craving for tobacco which can continue for a long time. Reports show that one out of every five smokers has occasional cravings for more than five years after quitting.

Damage to tissues caused by smoking can be reversed if smoking stops before the onset of lung, heart or circulatory disease. After a year of nonsmoking, the risk of a heart attack begins to decline; after ten years of not smoking, the risk is about the same as that of a nonsmoker. The risk of lung cancer begins to decrease as soon as smoking stops and it rapidly drops to about that of a nonsmoker after 10 to 15 years.

Quitting Smoking and Tobacco Products

Quitting the use of any tobacco product is not an easy task. Cigarettes and other tobacco products often become a crutch during stressful times and a means of enhancing pleasure. For many, tobacco becomes not only a habit, but an addiction. Heavy users — the most addicted — have the greatest difficulty quitting as well as those who began using before age 20.

There are about 40 million ex-cigarette smokers in the U.S. today, so it can be done! Some users quit "cold turkey" - stopping use abruptly; others may make a pact with a friend or set a goal; while some may choose to go to a clinic or use a special program. It doesn't matter how. What's important is taking the first step - wanting to quit!

For More Information:

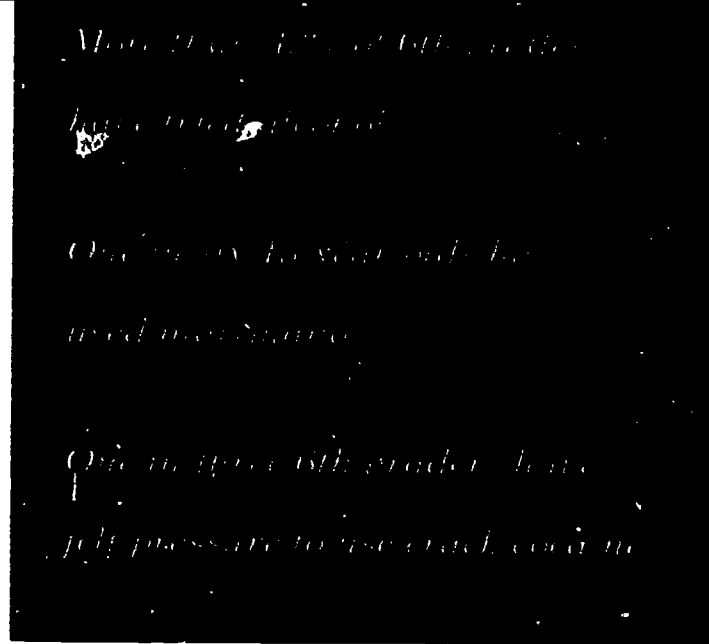
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INFUSION
PROJECT
Preventing Alcohol & Drug Use

C O N S I D E R T H E I N F L U E N C E





STATISTICS abound to remind educators of the growing threat and presence of drugs among middle school students.

But the fact is that early adolescents who are the emerging targets of the drug culture also present educators with a challenging opportunity... a chance to prepare those students to resist the pressure and threats *before* drugs become part of their young lifestyle.

The potential for positive influence at a critical time in the lives of middle schoolers is enormous for educators, and particularly for classroom teachers.

Drug awareness, education and prevention have traditionally been handled by such middle school educators as health teachers, guidance counselors or administrative personnel.

The Infusion Project seeks to broaden the scope of that responsibility. It provides a means for teachers in other disciplines to exert

their influence against drug and alcohol use, within the context of their own curriculum.

AN INTERACTIVE APPROACH TO ALCOHOL AND DRUG PREVENTION

Research has confirmed that the most effective education for middle school students is that which involves them interactively in the learning process. These students need more than facts; they need relevance which will motivate processing those facts to affect their daily lives. We know that participatory, interactive learning accomplishes this goal.

One type of interactive learning is *infusion learning*. We define infusion learning as the integration or infusion of a topic into the classroom presentation of pre-planned academic and other courses.

The infusion of drug use prevention material through interactive learning also relies heavily on peer interaction as part of the learning process. This strategy greatly reduces student resistance

to accepting drug-related information and facilitates processing it into their individual decision-making processes.

A READY-TO-USE CLASSROOM PROGRAM

This project has been developed by a team of educators which includes teachers like you – classroom teachers who understand the need for easy-to-apply, ready-to-implement help in a complex and sensitive area of study. It is modular in concept, and filled with examples, suggestions and ideas you can adapt to your classroom situation.

We invite you to consider the potential you have for directing young lives away from drug use... to consider the influence you can exert toward molding drug-free lives... and to consider this project as a practical blueprint for realizing both of these goals in your classroom.



How Project Modules Facilitate Infusion

This module series, of which the project consists, is comprised of lessons which can be integrated or infused into an existing middle school curriculum. Specific areas for which modules exist include such widely diverse subjects as geography, language arts and health. Separate modules have also been developed for use in exceptional education classes.

Modules are not “drug lessons.” More specifically, they are not meant to *add* activities to an already busy class period, but to be infused with existing classroom study units; to give the student an opportunity to respond to that information and demonstrate understanding; and to enable the student to process information into his or her individual lifestyle.

A SAMPLE MODULE GUIDESHEET demonstrates how the project

modules are "ready-to-use." Each teacher is encouraged to follow the details of the guidesheets to whatever extent he or she feels is appropriate. This built-in flexibility takes advantage of the classroom teacher's discretion and creativity in providing prevention learning best suited for the individual classroom.

TO ASSIST THE CLASSROOM TEACHER, EACH MODULE PROVIDES:

1. Two-fold Module Objectives

Subject Objective – This objective should coincide with that of your own unit plan. Your Subject Objective, as prescribed on module guidelines provided, would be to demonstrate knowledge or understanding of some facet of geography, math or other class subject material. This objective is one you have already scheduled in your lesson plans.

Prevention Objective – This parallel objective relates to some area of prevention-related facts or information, exposure to which reinforces the danger of drug or alcohol use.* A typical Prevention Objective is, "Students will recognize the major effects of alcohol and/or tobacco use on each body system."

* For the purposes of this project, the term "drug" includes any depressant, stimulant, hallucinogen, narcotic or other substance which alters normal functions of the mind or body and/or which may be addictive, and/or which has the potential to cause physical, mental or psychological damage to the user. This includes alcohol, caffeine, nicotine and prescription drugs, as well as illicit drugs.

2. Materials/Resources

Teachers receive an itemized list of materials required to achieve the Subject and Prevention Objectives of each respective module. They will also be directed to appropriate reference material, which is either attached to the module guidesheet or is readily available in the school learning resource/media center.

3. Procedures/Activities

Teachers are provided a specific list of suggested student activities, discussion topics and classroom procedures which target achievement of both Prevention and Subject Objectives. Teachers may use any or as many of the items on this list as they wish... modify them to meet specific classroom needs... or develop their own activities which they feel will help reach those same objectives.

4. Extension Activities

These are suggested additional classroom or out-of-class activities which take advantage of demonstrated student interest in a specific subject area. Extension Activities could range, for example, from written reports on recovering celebrity addicts and alcoholics to home-videotaped television commercials depicting alcohol and over-the-counter drugs as essential to success and well-being.

5. Teacher Tips

These are other tips, suggestions or practical bits of information which help the teacher in implementing this module and making it more effective.

In this area, special attention is given to ways to facilitate student *processing* of information and ideas they are receiving about alcohol and other drug use prevention. Processing throughout these lessons is intended to stimulate critical thinking, to cause students to identify the *personal* meaning and applications of the lesson's teachings to their lives beyond the classroom.

Finally, evaluation is as essential to measuring the effectiveness of this project as it is to any classroom lesson. We have not included any specific evaluation guidelines in the modules, however, because each module will be interpreted and presented differently by each teacher. And each classroom situation presents a unique set of circumstances. Accordingly, determining an appropriate means of evaluation is left to the individual teachers.

L A N G U A G E A R T S
W R I T I N G


SUBJECT OBJECTIVE
Students will write for a variety of purposes and audiences using all stages of the writing process.

PREVENTION OBJECTIVE
Students will recognize and practice resisting pressures to use alcohol and other drugs.

Materials/Resources:
1. Teacher activity page: "Sticky Situations"

Activities/Procedures:

1. Divide the students into groups of three to five and give each group a situation slip. The group will write a short script (play) dealing with the situation.
2. Students act out or present their scripts and plays.
3. Conduct class discussions for each situation.



Grade level
7

Teacher Tips:
Critical thinking will facilitate infusion prevention. Suggested questions: What did I learn about myself? What will I change in the future? What surprised me most about this activity?

Extension Activities
If possible, videotape the plays and show them to other classes.
Have students create their own sticky situations.
Sticky Situations
To the teacher: cut out each situation and give one to each student group (or let them choose one).



Develop Your Own Modules

The Infusion Project is structured to recognize that each classroom situation is unique in its needs for drug and alcohol prevention education. For that reason, you are urged to use each module as a starting point from which to spark your own creativity.

Regardless of the subject, drug and alcohol prevention information can be infused into classroom activities so that both the Subject Objectives and Prevention Objectives can be achieved.

THE FOLLOWING ARE SOME TYPICAL SUBJECT-SPECIFIC EXAMPLES:

Language Arts:

- Reports on prominent writers whose literary careers were curtailed by the use of drugs or alcohol, i.e., F. Scott Fitzgerald, Edgar Allen Poe, etc.;
- A study of the roles which drugs and alcohol play in literature;
- Spelling definition and consequence studies of types of drugs.

Mathematics:

- Study of percentages of alcohol in the body and levels of effect on mind-and-body function;
- Analysis of the costs to business of employee alcohol and drug use.

Geography:

- Plotting routes of illegal drug trade from producing countries to specific U. S. cities;
- Gaining insight into the societal, governmental, and economic problems caused by alcohol and drug abuse.

Science:

- Chemical properties of nicotine, alcohol and caffeine;
- The application of the scientific method to decisions on drugs;
- The long-term effects of alcohol on the body.

Physical Education/Health:

- Effects of steroid use by athletes;
- The positive role of fitness through sports participation;
- Self-esteem discussions for those who are not sports talented.

Social Studies:

- A discussion of drugs in the community related to violent crime;
- A study of the falling prestige of smoking in today's society;
- A review of how public attitudes have changed and matured about drinking, especially driving and drinking.

The wealth of resources available at the local level, in media centers, in guest speakers, even in the daily headlines, lends itself to classroom teachers creating their own modules, and tailoring those modules to the specific needs of each class.

PROGRAM MODULE CRITERIA

The following is a checklist of criteria which can be used by individual classroom teachers in developing their own drug and alcohol prevention learning modules.

THE PROPOSED MODULE

1. Can be easily infused into the subject area;
2. Includes a Prevention Objective *and* a Subject Objective into which it can be infused;
3. Promotes higher level thinking skills;
4. Provides knowledge, insight and a proactive personal application through an opportunity for processing
5. Helps build such life skills as:
 - Problem solving
 - Critical thinking
 - Decision making (making low-risk choices)
 - Communication (assertiveness training, resistance skills)
 - Peer selection
 - Self-improvement
 - Stress reduction
 - Consumer awareness of attitude manipulation
6. Strongly emphasizes prevention of the gateway drugs: tobacco, alcohol and marijuana;
7. Promotes healthy alternatives to alcohol and drug use;
8. Addresses the influence of social systems, i.e., family, peer group, media;
9. Utilizes the principles of public prevention programs (such as "Stop Smoking" campaigns):
 - The focus on short-term social consequences
 - Sensitization to peer and media pressures to smoke or drink
 - Conscious resistance to those pressures, armed with drug information, determination and support
 - High levels of audience participation
 - Role-playing and other classroom exercises to practice behaviors, including resistance behavior
10. Addresses the special problems of high-risk students:
 - antisocial behavior, academic failure, nonsupportive family/home environment.

ALL INFUSION MODULES SHOULD INCLUDE THE COMPONENT OF PROCESSING.

*Processing is Integral to a central goal of the Skills for Adolescence program – teaching critical thinking. Students are actively involved in their learning. They do, see, feel, think, and hear. Through processing, they are actively involved in figuring out what they are learning and what it means to them outside the classroom.

Processing throughout and at the end of lessons *is* intended to cause students to identify the personal meaning and application of the lesson's teachings.

Should students' responses suggest that they have come to inaccurate or inappropriate conclusions (i.e., there are no harmful effects associated with drinking alcohol), it's up to the teacher to use additional questions, statements of observation, use problem-solving or extend (review or repeat) the lesson to achieve the goal of the lesson.

A simple way to look at the role of processing in a lesson is to think of a classroom session as having the three parts listed below. Processing is represented by the last two:

- | | |
|-----------|---|
| What? | The activity; a hands-on experience, a movie, a discussion. |
| So What? | Identify thoughts, feelings, reactions and what may have triggered them, insights, surprises, questions, learnings. |
| Now What? | Apply information/insights/learnings to other situations.
Project how to use in future situations. |

10

THE FOLLOWING suggestions should contribute to successful processing:

Move from private to public with respect to the answering environment. In the early stages, ask students to respond in the lowest risk environment (think the answer), moving up the scale to the most amount of risk as students become more comfortable with these types of questions. The following scale depicts low to high risk environments:

Think the answer – Write it but don't share it – With a partner – In trios – In a small group – In front of the entire class

Address your question to the group, not to a specific student.

Use "Wait time." Ask your question, then wait. Count slowly to seven, then rephrase the question. Try to avoid answering the question yourself or calling on the "students with all the answers."

Accept several responses to your question. If you stop at one, you're telling students there was one correct response to the question.

Acknowledge students' responses. Vary your comments while being careful not to advise, evaluate, or moralize.

Summarize students' responses at the end of each question (tell them what they told you).

When students' responses contradict intended learnings from the session or violate responsible behavior, remind yourself your asking for opinions; everyone has a right to his or her own. Reflect feelings, restate the response or ask others for their opinions (be careful not to set up an attack situation which victimizes an individual).

If the activity bombs, play Johnny Carson. He is often at his best when he's "dying up there!" Here is a real opportunity to practice problem solving as a part of processing.

*Adapted from Lions Quest Skills for Adolescence Workshop Guidebook, 1989. Quest International, 537 Jones Rd., P.O. Box 566, Granville, OH 43023-0566.



*Peer Participation
and Support
Redefining
Acceptance*

THIS PROJECT has been developed to infuse the lessons of prevention into a variety of academic classrooms, combining knowledge of drugs and the consequences of use with academic subject matter, and enhancing the learning experience, wherever possible, with peer participation and open discussion.

According to research, peer programs are dramatically more effective than programs which rely on "knowledge-only" strategies, or which use "affective-only" activities, i.e., self-image enhancement, value development, self-esteem building, etc. Acceptance by one's peers is perhaps the primary day-to-day goal motivating middle school-age youngsters.

Peer participation is based on the fact that peer pressure outside the classroom is the single most powerful factor in inducing initial drug use and experimentation among young adolescents. A drug

use prevention program which neutralizes peer pressure by encouraging a peer dialog of encouragement and support is far more likely to achieve long-term results.

Through a variety of activities, this project gives students the intellectual ammunition to decide against drug use; it makes "just saying no" a peer-acceptable action which makes obvious sense, and which needs no justification or defense in the schoolyard or on the street.

OPENING CHANNELS OF COMMUNICATION AND INFORMATION

Students in the middle school grades often have a need to communicate about ambiguities in their stance on drugs. Youngsters who would never ask a drug-related question at home will often willingly seek information once the subject is broached in an open classroom. The project encourages that open discussion, which the teacher moderates on an objective, non-judgmental basis.



*Consider the
Potential
for Today and
for a Lifetime*

The Infusion Project is predicated on three facts:

1. That middle school students making decisions about drugs desperately need information and support to counter the societal, media and peer pressure they are exposed to beyond the classroom door;
2. That classroom teachers, by virtue of daily contact, can exert enormous influence on that decision-making process; and...
3. That through the use of interactive infusion learning, ideas and attitudes can be instilled *as an integral part of existing academic plans and objectives.*

As a classroom teacher who instructs and influences the lives of hundreds of middle school youngsters every school day, you have an opportunity to guide your students away from experimentation with that first cigarette or wine cooler... away from peer temptations to try marijuana, the currently fashionable designer drugs or crack cocaine.

In the long term, you hold the potential to affect young lives at a crucial time in their development, enabling today's youngsters to make decisions which will help forge them into productive citizens well into the next century.

PREVENTION LEARNING REFERENCE AND RESOURCE GUIDE

National Clearinghouse for Alcohol and Drug Information (NCADI)

P.O. Box 2345
Rockville, MD 20852
(301) 468-2600

Information and services for the general public on questions about all types of drug and medicine use and abuse. NCADI is especially designed to serve community leaders, youth workers, parents, health care providers, and concerned citizens. **This is the chief National Information Center for citizen information on substance issues.**

Drug Alliance Office

ACTION
806 Connecticut Avenue, N.W.
Washington, D.C. 20525
(202) 634-9759

Voluntary projects to provide prevention programs and staff via VISTA, Foster Grandparents, and Retired Senior Volunteers Program (RSVP). These Programs enlist the activity of trained private citizens who commit to joining programs and contributing full- or part-time effort for a specified time in an area to which they are assigned by ACTION.

Drug Prevention Program for Department of Defense Schools

Office of Dependent Schools
Hoffman Building I
2461 Eisenhower Avenue
Alexandria, VA 22331-1100
(703) 325-0660

Prevention programs in the Department of Defense's schools for personal dependents.

National Institute on Alcohol Abuse and Alcoholism (NIAAA)

Department of Health and Human
Services
Room 14C-17
5600 Fishers Lane
Rockville, MD 20857
(301) 443-2954

Information and research on alcoholism and alcohol-related problems of children and adolescents, and school-and community-based intervention programs.

National Institute on Drug Abuse (NIDA)

Department of Health and Human
Services
Room 10-04
5600 Fishers Lane
Rockville, MD 20857
(301) 443-4577

Information, research and programs on all aspects of drug abuse prevention and treatment.

National Institute of Mental Health (NIMH)

Department of Health and Human
Services
Room 15C-05
5600 Fishers Lane
Rockville, MD 20857
(301) 443-4515

Research on the stages of dependency, prevention and intervention, and the links between substance abuse and delinquent behavior.

Office of Smoking and Health (OSH)

Public Health Service
Technical Information Center
Park Building
5600 Fishers Lane
Rockville MD 20857
(301) 443-1690

Information on all aspects of tobacco and its effects, methods of ingestion, and prevention and treatment programs.

Drug Enforcement Administration (DEA)

Demand Reduction Section
Department of Justice
Room 1203
1405 Eye Street, N. W.
Washington, D. C. 20537
(202) 786-4096

Sports Drug Awareness Program and drug abuse education and prevention publications.

Safe Schools Program

National Institute of Justice
Room 805
633 Indiana Avenue, N.W.
Washington, D.C. 20531
(202) 272-6040

A program to assist school administrative personnel in developing and maintaining safe learning environments at the school building level.

National School Safety Center

Office of Juvenile Justice and
Delinquency Prevention
Department of Justice
Suite 200
16830 Ventura Boulevard
Encino, CA 91436
(818) 377-6200

A project to study the frequency and patterns of delinquency at the school building level, identify possible remedies, and promote crime prevention and the restoration of discipline. Substance abuse as well as other causes of delinquency are studied.

Drug and Alcohol Abuse Prevention and Treatment

Office of Juvenile Justice and
Delinquency Prevention (OJJDP)
Department of Justice
Room 758
633 Indiana Avenue, N.W.
Washington, D.C. 20531
(202) 724-8491

Assistance to communities experiencing serious substance abuse problems among children and youth.

Narcotics Education, Inc.

This organization publishes pamphlets, books, teaching aids, posters, audiovisual aids, and prevention magazines designed for classroom use: *WINNER* for Preteens and *LISTEN* for teens.

6830 Laurel Street, N.W.
Washington, D.C. 20012
1-800-548-8700
Washington D.C. area (202) 722-6740

Parents' Resource Institute for Drug Education, Inc. (PRIDE)

This national resource and information center offers consultant services to parent groups, school personnel, and youth groups, and provides a drug-use survey service. It conducts an annual conference; publishes a newsletter, a youth group handbook, and other publications; and sells and rents books, films, videos, and slide programs. Membership is \$20.00.

The Hurt Building,
50 Hurt Plaza,
Suite 210,
Atlanta, GA 30303
(404) 577-4500; 1-800-241-9746

Schools Without Drugs: The Challenge, U.S. Department of Education

Cosponsored by 14 national education, law enforcement, and parent organizations. The Challenge Program seeks a commitment from schools and their local communities to combat alcohol and drug use. Schools that enroll in The Challenge receive a banner and the bimonthly newsletter, which provides information on research and practice related to prevention and intervention.

Schools Without Drugs:
The Challenge,
U.S. Department of Education,
Washington, D.C. 20202
(202) 732-4161

American Council for Drug Education (ACDE)

ACDE organizes conferences; develops media campaigns; reviews scientific findings; publishes books, a quarterly newsletter, and education kits for physicians, schools, and libraries; and produces films.

204 Monroe Street,
Suite 110,
Rockville, MD 20852
(301) 294-0600

Southeast Regional Center for Drug-Free Schools and Communities

University of Louisville
School of Education, Room 315
Louisville, KY 40292
(502) 588-6852

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