Prevention of Alcohol and Other Drug Problems What We Can Do!

A Program for Parents

Prescription Drug Abuse is a Growing Problem

- More teens and young adults are abusing prescription drugs
- Kids say; they are easy to get, they're legal, and they aren't addictive

Where are they getting the prescription drugs?



"Pharming" – taking prescription drugs

"Rainbow parties"

Popping pills in school and throughout the day





Why are they using drugs?

- Might be peer pressure or it might be more basic:
 - Who they are and what they are dealing with:
 - Depression, anxiety
 - Weight control
 - Self esteem
 - Wanting to fit in
- Help them find productive ways to fit in.

Prescription Drug Abuse

When prescription drugs are abused they can be just as dangerous as street drugs and they can be addictive!



Prolonged drug use changes the brain in fundamental and long-lasting ways

Over-the-Counter Drugs



It's called robo-tripping, skittling, tussin or triple-c

DXM Effects

- Pupil dilation
- Dizziness, nausea
- Confusion, disorientation, lack of coordination
- Robotic, zombie-like walking, "robo-walk"
- Dissociative effects may last 6 hours

Methamphetamine

- Powerful CNS stimulant!
- Easy to make
- Extreme danger of combustion and burns
- Health risks are enormous with these chemicals



Why Methamphetamine?

- Cheaper and longer lasting than other stimulants!
 - High lasts can last6 to 12 hours
- An extremely dangerous and powerfully addictive drug!!!





Hollowed out pens



Straws, gum wrappers



Cards for crushing



Butane lighters

Dilated pupils

Burns on thumb

Red or irritated nostrils



Stimulants











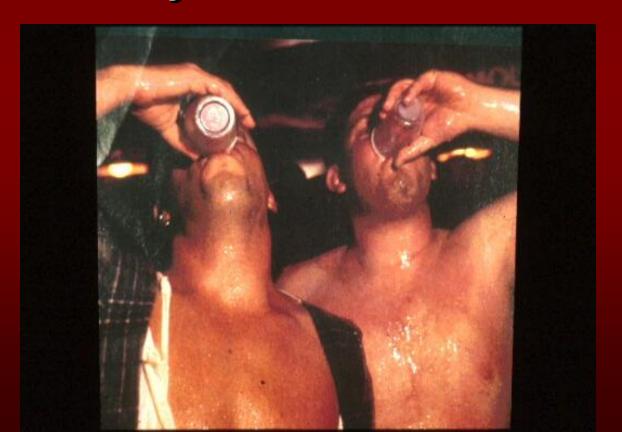
Behavior Warning Signs

- Erratic behavior
- Constantly misplacing things
- Lying
- Skipping school
- Isolation
- Paranoia
- Weird eating & sleeping patterns

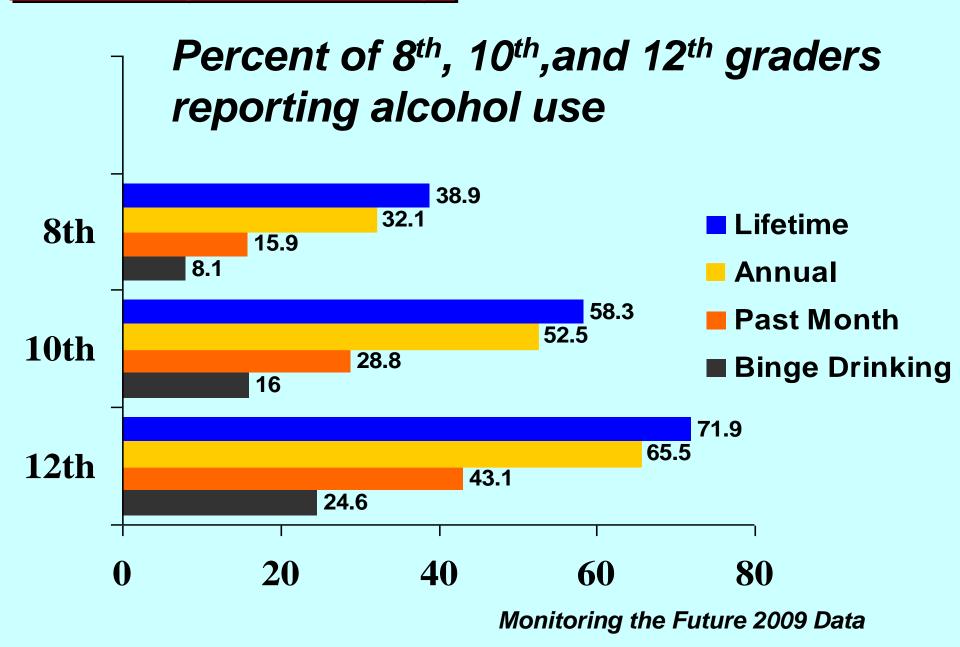


Alcohol

Most widely abused OTC drug



Underage Drinking:



Dangers of Teen Binge Drinking

- Binge drinkers are 5X more likely to have sex
- 18X to smoke cigarettes
- 4X to smoke marjuana
- 4X to get into physical fights w other teens
- Have a higher rate of suicide
- Causes them to make rash and dangerous decisions; loss of internal control
- Alcohol leading cause of accidents, murder and rape among teens
- Alcohol causes 150,000 ER visits by teens

THE MOST DANGEROUS DRUG OF ALL

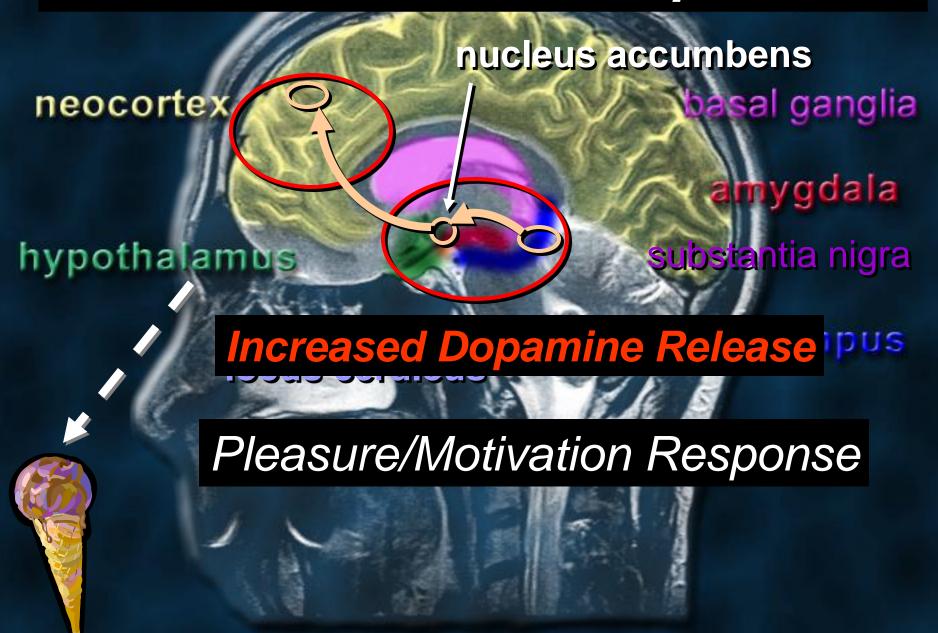
Alcohol

- is a drug
- is a drug
- is a psychoactive addictive drug

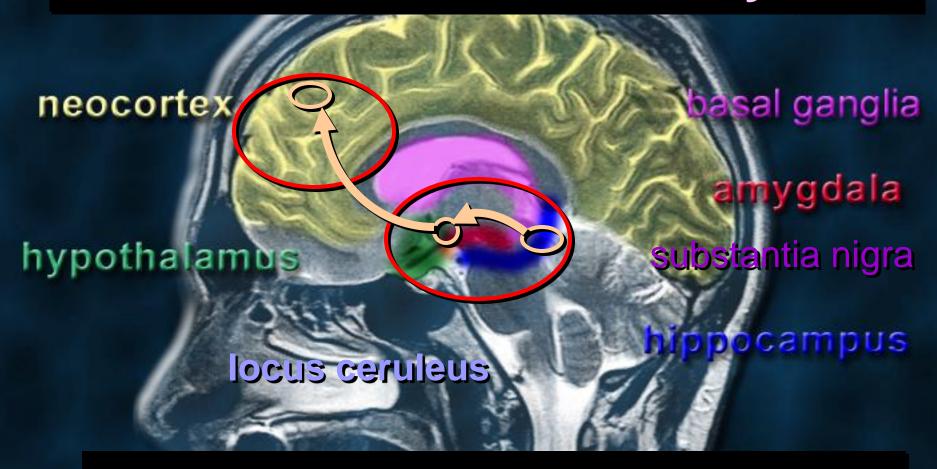
Underage drinkers are at greater risk for:

- Learning problems
- Trouble at school and home
- Becoming sexually active
- Mental & social development consequences
- Using other drugs (53% vs. 3%)

Normal Pleasure Response

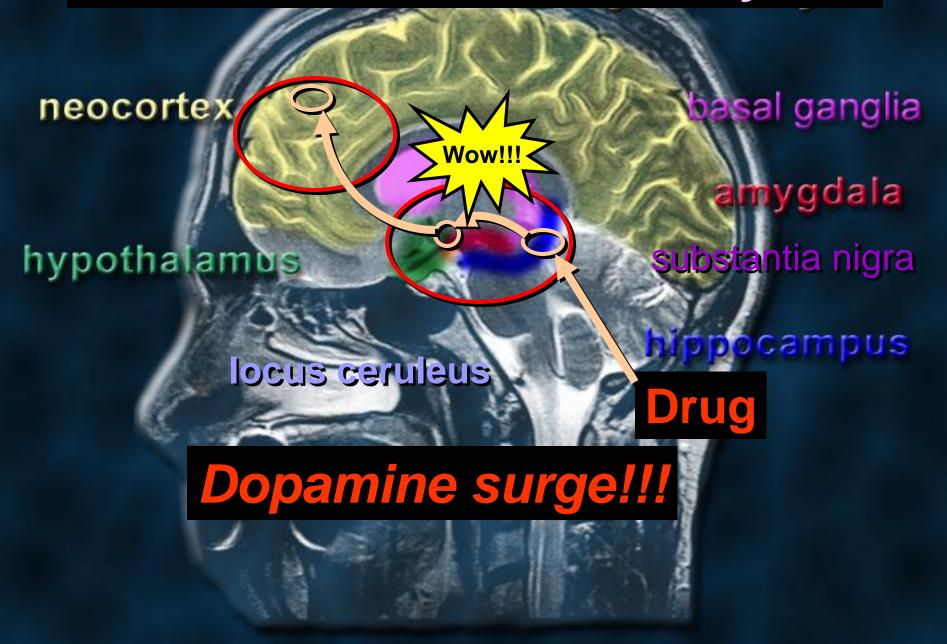


Brain Reward Pathway



Psychoactive Addictive Drugs Act on this Pathway

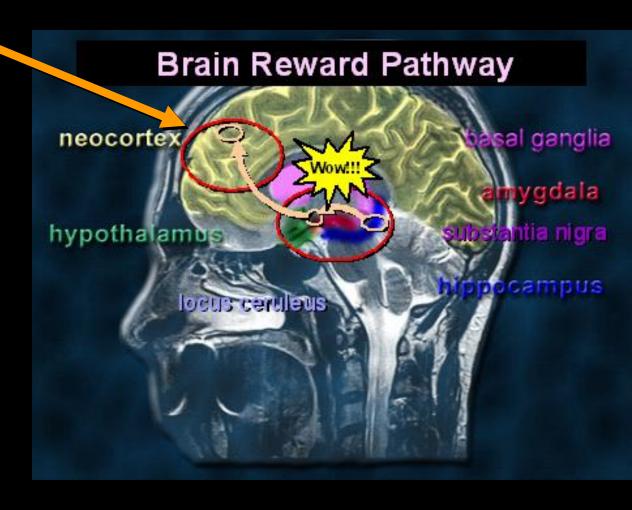
Brain Reward Pathway



Reward Pathway

Drugs act on the Brain Reward Pathway

The "Wow!!!" is a big reason people take drugs but other things also happen...



Reward Pathway

Areas

Emotional & behavioral • learning

Control of body movement

Early learning and memory processing

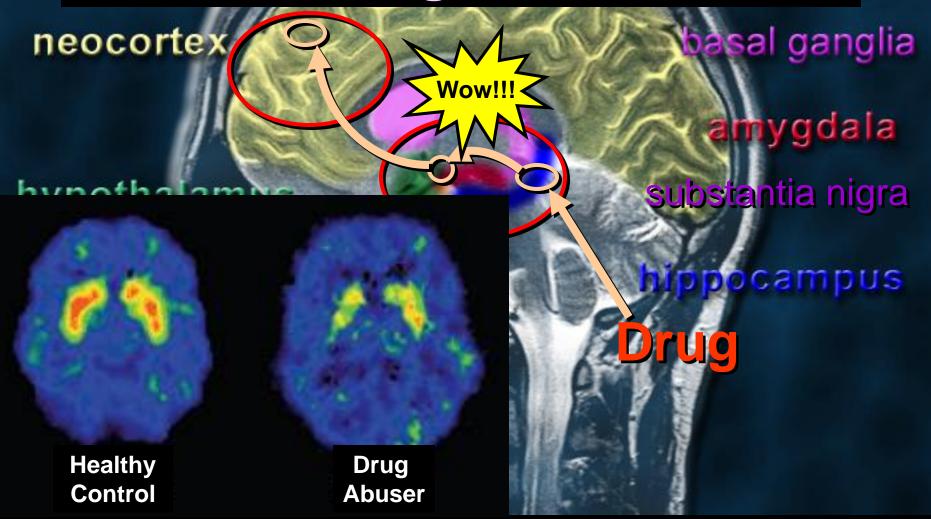
Attention states and automatic function



Recognize the Signs and Symptoms

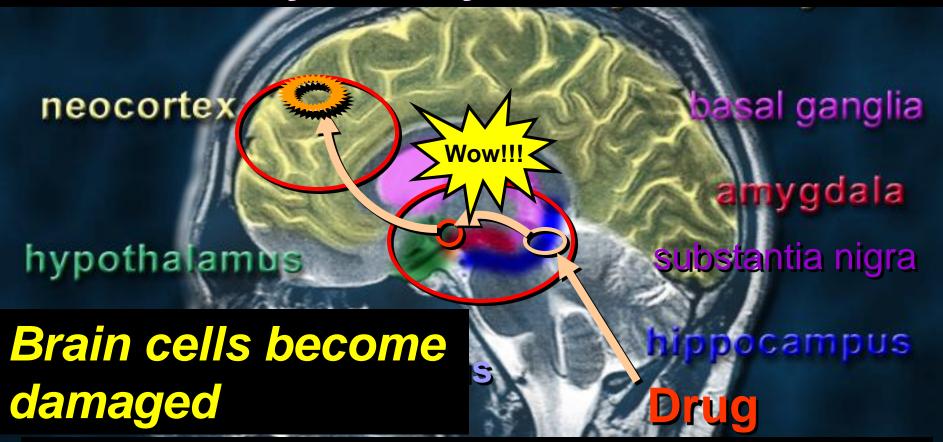
There is no safe "High"

What happens with continued drug use?



Tolerance and Withdrawal Develop

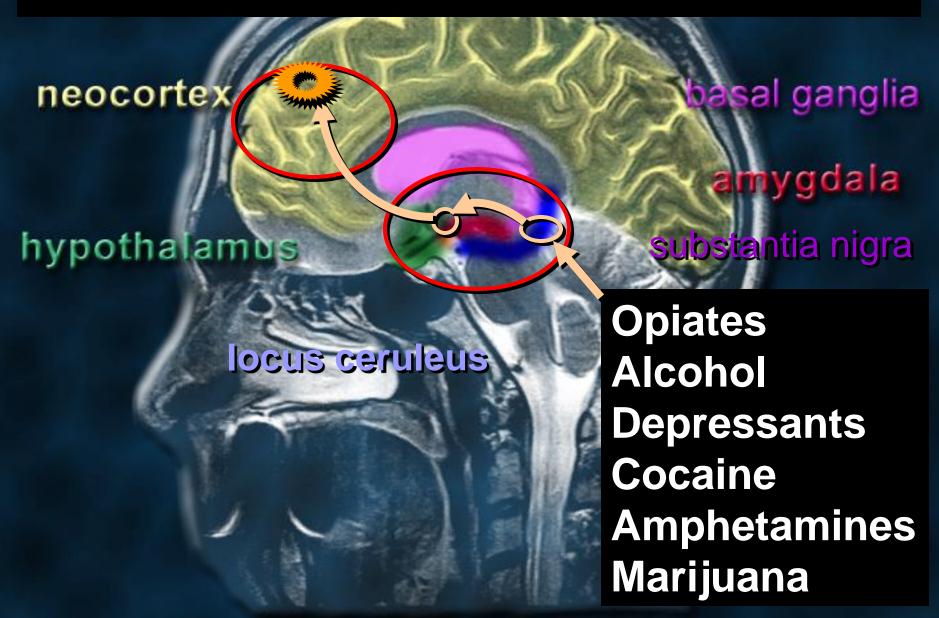
Finally the System Breaks



A "molecular switch" is thrown in the brain

- The person becomes a drug addict
- Loss of control over drug use
- Compulsive drug seeking behavior

Addiction is a Brain Disease



Addiction

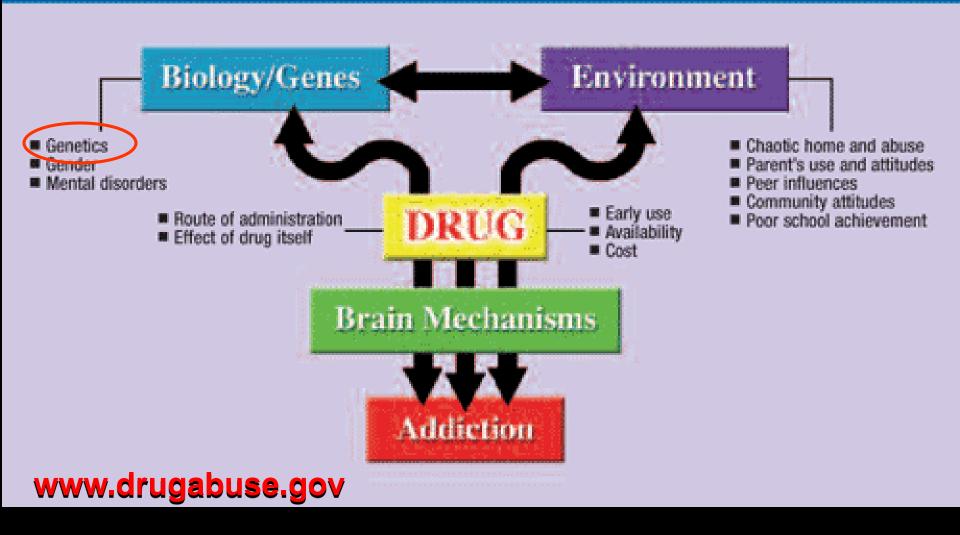
 A disease characterized by continued use and abuse of drugs despite recurring negative consequences in a person's life

 Loss of control over taking a substance





RISK FACTORS



Drugs, Brains, and Behavior: The Science of Addiction; NIDA, March 2007

Risk Factors - Science Based Data

- Family history of alcohol or other drug abuse
 - Children of Alcoholics have a four times greater risk of becoming addicted to drugs

Risk Factors

- Favorable attitude toward alcohol and other drugs
 - Groups that accept and encourage heavy drinking or other drug use
 - Beliefs like:

It can't happen to me", "I can handle it" are very dangerous

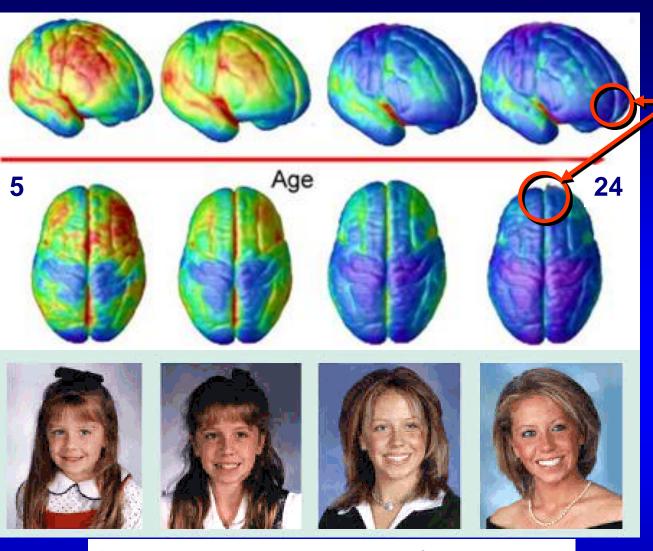
Risk Factors

- Parental drug misuse and/or abuse
- Early onset of drug use

The Progression of Use



Young brains are especially susceptible to alcohol and other psychoactive addictive



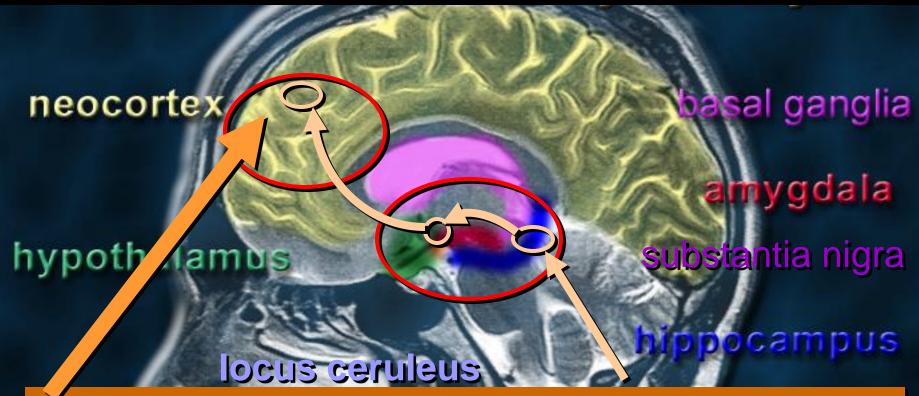
Prefrontal Cortex - last area to develop

Images of Brain
Development in
Healthy Children,
Teens and Young
Adults

Blue represents maturing of brain areas

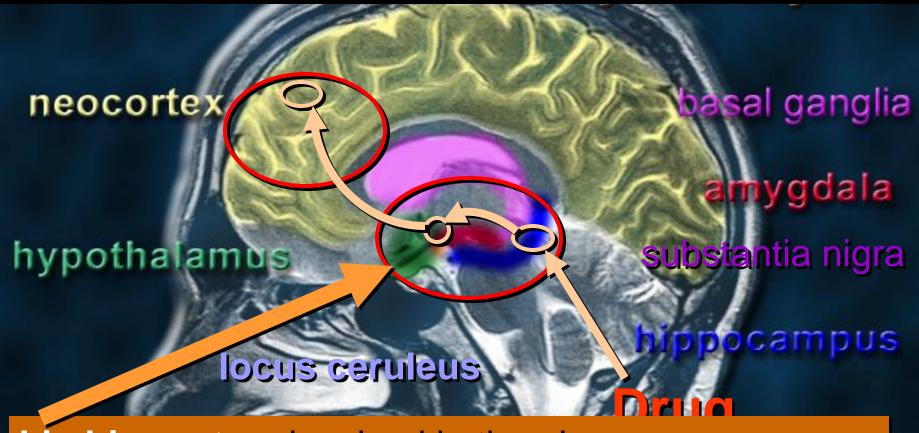
Brain development is ongoing during adolescence and continues into the early twenties contrary to what was previously thought

Dangers of Drug Use

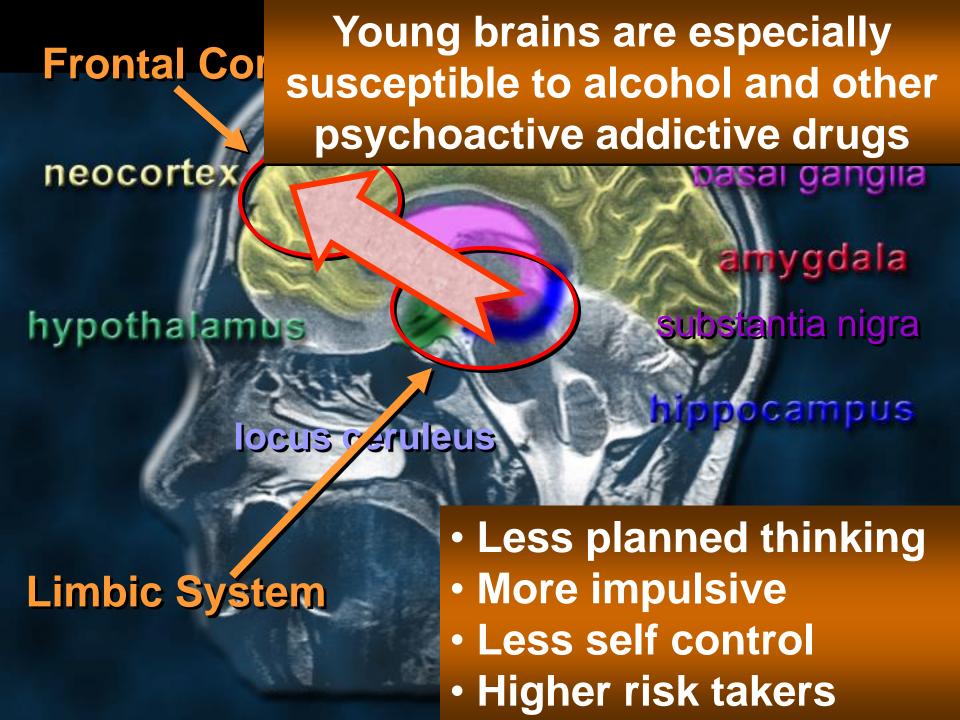


Perfrontal Cortex seat of judgment, reasoning, problem solving; enables us to assess situations, make decisions, plan for the future and keeps our emotions and desires under control (governs impulsivity, aggression,...)

Dangers of Drug Use



Limbic system involved in the pleasure response; also regulates emotions and motivations, such as fear, anger, and is involved in early learning and memory processing,...



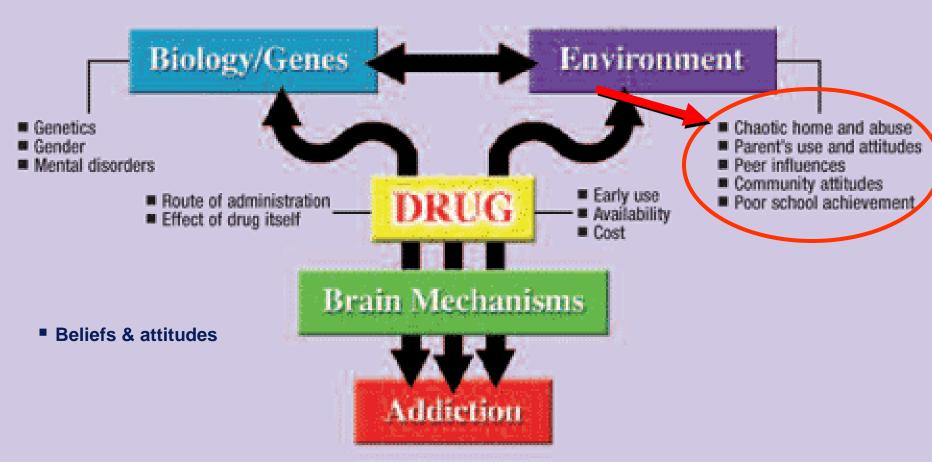
Brain Research Conclusions

- 1. Young brains are more susceptible to drug use than adults
- 2. Using drugs while the brain is still developing may have profound and long-lasting results:
 - Learning ability & emotional development
- 3. Implications of these studies are enormous for parents

Teens who begin drinking before age 15 years are 4X more likely to develop alcoholism

Young adults may be less likely to develop serious alcohol and other drug problems if the age of first use is delayed beyond childhood or adolescence

RISK FACTORS



www.drugabuse.gov

- Association with drug-using peers
 Family conflict or stress
 Poor parent-child relationship:
 - lack of monitoring and supervision
 - inconsistent or excessive discipline
 - lack of caring and support

- Little commitment to academic achievement
- Lack of involvement in school and community
- Lack of clear, enforced school policy about drug use

- Portrayal of ATOD on TV and in movies
- Advertising impact on norms and behavior

Commercials, Advertisements, and Internet

- Deceptive ads on the Internet
 - "Valium releases stress on spot, allowing more self confidence"
 - Web sites detail a drugs synthesis information, list of ingredients and how much you should pay for a dose



Make Some Rules

- Keep computers in a central area
- Tell your kids, despite what they may see on the Internet, there is no safe way to get high
- Tell them about the dangers of drug use



- Availability and cost of alcohol and other drugs
- Poor enforcement of laws concerning alcohol and illegal drug use

The more risk factors a person has the greater their risk for developing alcohol, tobacco, or other drug problems

Impairment Consequences of Alcohol Use



Impairment

Any slowing of thought or physical reaction beyond the initial relaxation effect of alcohol

At 0.01% BAC

Mild euphoria, sense of relaxation

At 0.08% BAC

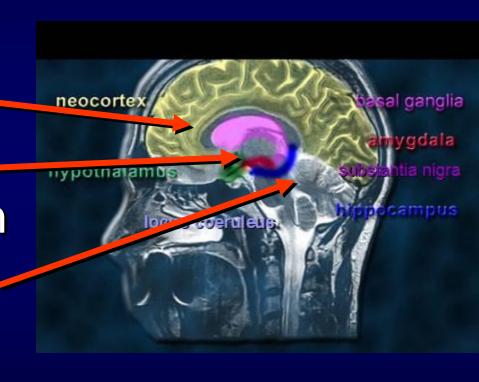
Legal impairment

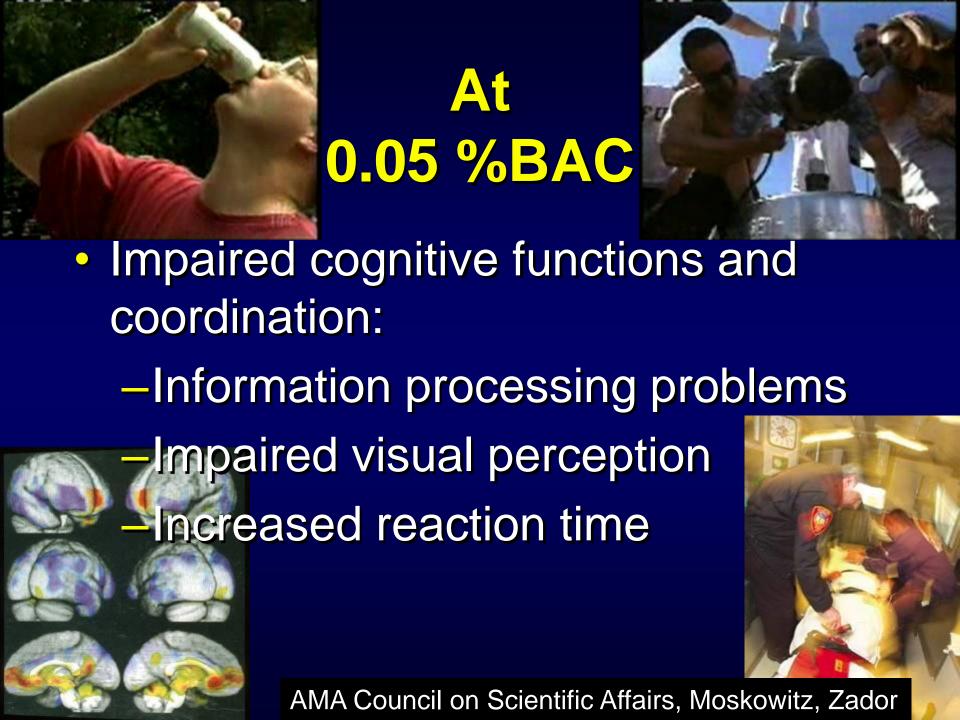
At 0.08% BAC - Physical and mental impairments, decreased coordination & thinking ability, poor judgment, volatile mood,...

Impairment begins long before someone is legally drunk

Impairment begins at 0.03% BAC

- Divided attention problems
- Impaired eye balance coordination
- Slower eye tracking ability





ALCOHOL IMPAIRMENT CHART

Drinks										
	90	100	120	Body W	160	180	200	220	240	
0	.00	.00	.00	.00	.00	.00	.00	.00	.00	ONLY SAFE
1	.05	.05	.04	.03	.03	.03	.02	.02	√.02	Impairment Begins
2	.10	.09	.08	.07	.06	.05	.05	.04	04	Driving Skills Affected
3	.15	.14	.11	.10	.09	~.08	07	.06	.06	Possible Criminal Penaltie
4	.20	.18	.15	.13	7.11	10	1.09	.08	.08	Criminal r charic
5	.25	.23	19	1.16	14	13	1.11	.10	.09	
6	.30	27	.23	19	17	J.15	.14	.12	.11	Legally
7	35	.32	.27	123	.20	.18	.16	.14	.13	Intoxicated
8	.40	.36	30	.26	.23	.20	.18	.17	.15	Criminal Penalties
9	.45	.41	.34	.29	.26	.23	.20	.19	.17	
10	.51	.45	.38	.32	.28	.25	.23	# of o	lrinks	per hour

Your body can get rid of one drink per hour.

Each 11/2 oz. of 80 proof liquor, 12 oz. of beer or 5 oz. of table wine = 1 drink.

ALCOHOL IMPAIRMENT CHART

Drinks									
	100	120	140	160	180	200	220	240	
0	.00	.00	.00	.00	.00	.00	.00	.00	ONLY SAFE DRIVING LIMIT
1	.04	.03	.03	.02	.02	.02	.02	.02	Impairment
2	.08	.06	.05	.05	.04	.04	.03	.03	Begins
3	.11	.09	.08	.07	.06	.06		.05	Driving Skills Affected
4	.15	.12	.11	_09	80.	.08	.07	.06	Possible Criminal Penalties
5	.19	.16	13	.12	114	.09	.09	.08	
6	.23	.19	1.16	.14	13	.11	.10	.09	********
7	.26	.22	119	16	.15	.13	.12	.11	Legally Intoxicated
8	.30	.25	.21	.19	.17	.15	.14	.13	Criminal
9	.34	.28	.24	.21	.19	.17	.15	.14	Penalties
10	.38	.31	.27	.23	.21	.19	.17	.16	

U.S. Dietary Guidelines on Alcoholic Beverages

 Current evidence suggests that light to moderate drinking is associated with a lower risk for coronary heart disease in some individuals

 Higher levels of alcohol intake raise the risk for serious health and impairment problem

U.S. 2010 Dietary Guidelines on Alcohol Consumption

Alcohol consumption may have beneficial effects when consumed in moderation. Strong evidence has shown that moderate alcohol consumption is associated with a lower risk of cardiovascular disease; also reduced risk of all-cause mortality amony middle-aged and older adults and may left to keep cognitive function intact with ag However, it is not recommended that anyone begin drinking or drink more frequently on the basis of potential health benefits because moderate alcohol intake also is associated with increased risk of breast cancer, violence, drowning, and injuries from falls and motor vehicle crash

Moderate alcohol consumption is defined as up to 1 drink per day for women and up to 2 drinks per day for men.

Heavy or high-risk drinking is the consumption of more than 3 drinks on any day or more than 7 per week for women and more than 4 drinks on any day or more than 5 drinks on any day or more than 6 dr

Binge drimming bound on within 2 hours of 4 or more drinks for women and 5 or more drinks for men.

One drink is defined as: 12 fl. oz. of regular beer (150 calories) 5 fl. oz. of wine (100 calories) 1.5 fl. oz. of distilled spirits (100 calories)



Women Up to 1 drink per day; no more than 7 drinks/week There are many circumstances in which people should not drink alcohol:

- Individuals who cannot restrict their dripking
- Anyone younger than the legal drinking age. Besides being illegal, alcohol consumption increases the risk of drowning, car accidents, and traumatic injury, which are common causes of death in children and adolescents.
- be pregnant. No safe level of alcohol consumption during pregnancy has been established.
- Individuals taking prescription or overthe-counter medications that can interact with alcohol.
- Individuals with specific medical conditions (e.g., liver disease, hypertriglyceridemia, pancreatitis).
- Individuals who plan to drive, operate machinery, or take part in other activities that require attention, skill, or coordination or in situations where impaired judgment could cause injury or death (e.g., swimming).

If you drink alcoholic beverages, do so in moderation, with meals, and when consumption does not put you or others at risk.



Men Up to 2 drinks per day; no more than 14 drinks/week

For more information see: http://www.cnpp.usda.gov/Publications/DietaryGuidelines/2010/PolicyDoc/Chapter3.pdf.p30-32 Chronic alcohol use may result in:

Memory loss, impaired judgment,
headaches, depression, anxiety,

blackouts, insomnia

Cancers of the esophagus, mouth, throat

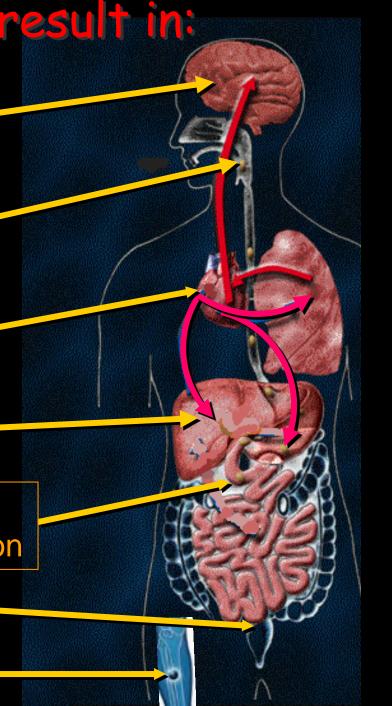
Heart disease, high blood pressure, stroke

Liver disease, liver cancer

Chronic stomach problems, GI bleeding, diarrhea, ulcers, malnutrition

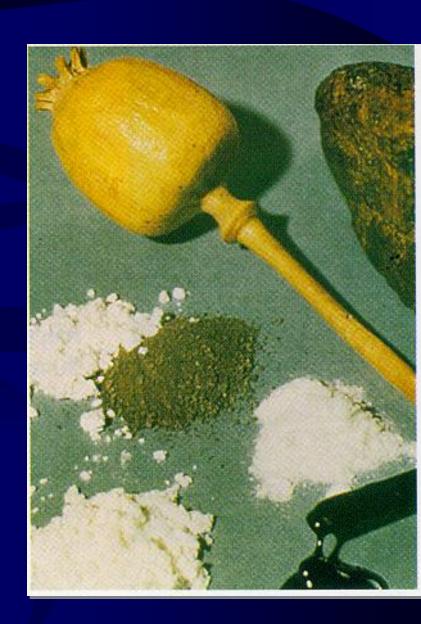
Impotency, reproductive disorders

Muscle damage, osteoporosis



Heroin

- Most infamous product of opium poppy
- Current resurgence in use: white powder & black tar heroin
- High purity and skyrocketing profits
- Cheaper than "Oxy" and other pain meds



Snorting Heroin or Opiates

 Since IV injection is more difficult and dangerous many users start by snorting



But <u>as tolerance develops</u>

progression

to IV use becomes <u>necessary!</u>

Serious Complications of IV use

- Danger of rapid injection
- Damage to blood vessels
- Viral infections
 - Hepatitis and HIV
- Bacterial infections
 - Meningitis, infections, abscesses, gangrene

Opiate Overdose

- Breathing can slow to the point that it ceases
- Overdose can be lethal
- It can happen with first time use

Medical intervention is critical Call 911



Marijuana - high-potency forms

- Commercial grade
- 3% Δ^9 -THC in early 90's
- Today As high as 10+%
- Significant increase in potency in recent years

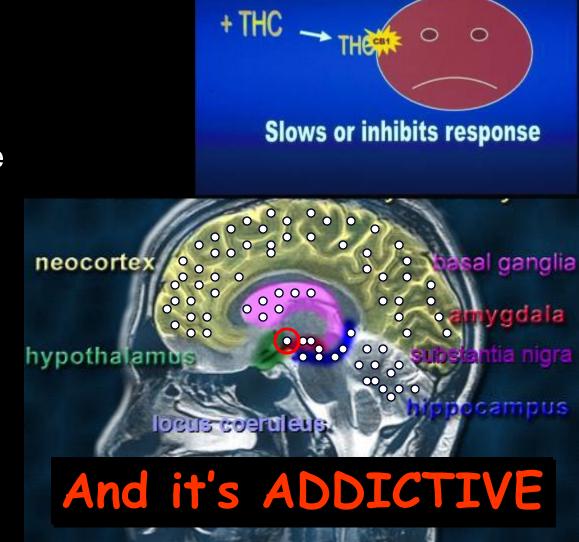
Impairment of Learning Ability

- Compromises the ability to learn and remember information
- Students who smoke marijuana:
 - Get lower grades
 - Less likely to graduate from high school



Thinking, movement, memory functions are all impaired:

- Poor coordination
- Harder to sustain attention
- Errors in judgment, time and space coordination
- Distorted perception (sights, sounds, time, touch)
- Delayed reaction times – in sports
- Increased risk for accidents



Brain cell

Health Problems of Smoking Marijuana

Brain

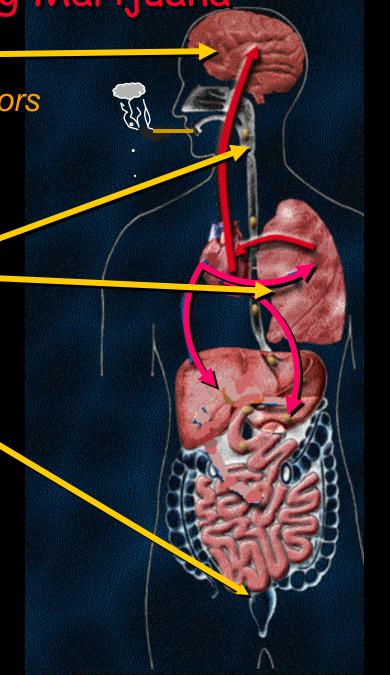
Harder to sustain attention, errors in judgment, delayed reaction times in sports & gaming, increases risk for accidents

Respiratory System -

Decreases lung function and exercise tolerance

Reproductive System:,

Decreased testosterone levels; decreases sperm count; disrupts menstrual cycle









Inhalant Abuse

- Many parents are unaware of the potential dangers of some common household products if they are inhaled by their children
- Young people abuse inhalants because they are readily available, easy to get, legal....



Effects of Inhalants

- Produces a "rush", intoxicated or euphoric state
- Uninhibited and impulsive behavior
- Dizziness, distorted perception, slurred speech
- Confusion, inability to coordinate movements
- Impaired judgment

Intoxication

Inhalant Abuse

How do we know if a young person has been sniffing or huffing?

What can we look for?

What are the signs and symptoms?

Signs and Symptoms of Inhalant Abuse

Unusual breath odor

Chemical odor or stains on clothing

Discovery of hidden cache of spray paint or solvent containers, chemical-soaked rags ...

Flu-like Symptoms:

 Headache, nausea, vomiting, loss of appetite, congestion, coughing, abnormal drowsiness

Red or runny nose and eyes

Skin around mouth can be irritated or sore

Intoxicated Appearance:

 Dazed or dizzy, slurred speech, lack of coordination, tremors, inability to concentrate

 Chronic abusers exhibit anxiety, excitability, restlessness, irritability

National Inhalant Prevention Coalition

www.inhalants.org

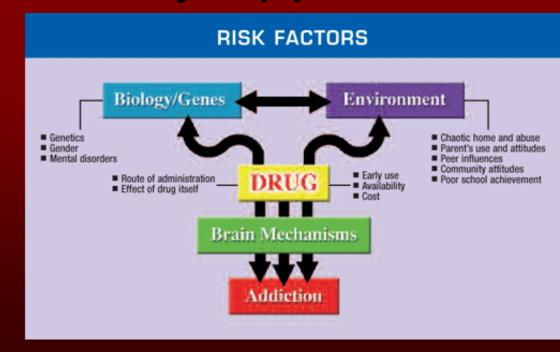
Video and brochures

How to Prevent Prescription, OTC, and Other Drug Problems

What We Can Doll!

What We Can Do!

- Know the Risk Factors
- Adopt a Resiliency Approach



- A sense of purpose and future
- Healthy expectations and a positive outlook
 - Spiritual foundations and relationships
- Having an opportunity to contribute and be seen as a resource
 - A sense of belonging, spiritual connectedness

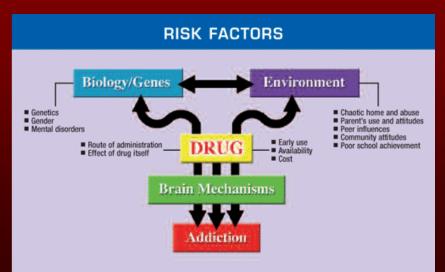
- Effectiveness in work, play and relationships
 - "Playing together", having fun together
- Self-esteem and an internal locus of control
 - Caring, support, acceptance, respect, openness, honesty, trust, interindependence

- Problem solving/critical thinking skills
- Self-discipline
 - Reinforce healthy behavior
- A relationship with a caring adult role model
 - Positive role models affect emotional growth

- Supportive networks and social bonds
- A sense of humor
 - Healthy teasing, not ridicule; help them break out of seriousness
- Norms and public policies that support non-use
 - Parent Alert Program

What We Can Do!

- Know the Risk Factors
- Adopt a Resiliency Approach
- Look for Early Sn and Sx



Early Sn & Sx of Drug Use/Abuse

- Behavioral changes
- Pay attention to child's attitude:
 - Argumentative, hostility
- Disregard for household rules, curfew
- Isolating and withdrawing from family and friends
- Change in friends, deteriorating relationships
- Evidence of lying or secrecy
- Decline in academic performance

Signs & Symptoms of Drug Use/Abuse

- Decreased interest in sports and other activities
- Changes in weight, eating/sleeping
- Depression, fatigue, even anxiety
- Missing household money, medication or alcohol
- Bloodshot eyes, consistent runny nose, cough, bronchitis
 - Incense, eye drops, odors on clothing, hair or in bedroom





Signs & Symptoms of Drug Use/Abuse

- Dizzy and trouble walking
- Difficulty remembering recent events
- Carelessness with grooming
- Drug paraphernalia: clothing, posters, jewelry, ... promoting drug use



www.drugfree.org/Parent

We need to be aware of the signs and symptoms of abuse and take positive action when there is a problem

What we can do!

- Know the Risk Factors
- Adopt a Risk/Resiliency Approach
- Look for Early Signs and Symptoms
- Give Prevention Messages

General Approach

- Support healthy lifestyle choices:
 - Encourage good health habits, eating a healthy diet, stress reduction, exercising, getting enough sleep, relaxing, bonding activities
- Incorporate drug prevention activities wherever possible:
 - -Look for "teachable moments"

Parents

- Understand the resiliency factors and support your adolescents in:
 - School performance
 - Setting goals
 - Positive expectations
 - Structuring free time
 - Evaluating peer groups
 - Building self-esteem
 - Community service
 - Social skills and decision-making ability

Parents

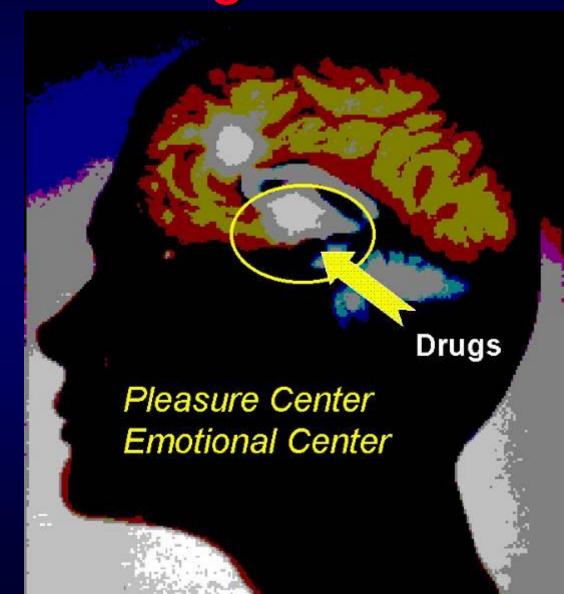
- Educate your children/adolescents about the risks of drug use:
 - Impairment risks:
 - Judgment problems, increased risks for accidents, risky sexual behavior
 - Health problems
 - Life consequences
 - It's illegal, ...

What do you tell them? Dangers of Drug Use

- High potency:
 - Altered state no longer in control
 - Disinhibitory effect
- Adulterants
- Unpredictable effects
- Problems in sporting activities:
 - Decreased coordination and performance ability
 - Reduced exercise tolerance

Dangers of Drug Use

- High risks for:
 - impairment and accidents
 - health problems
 - addiction
- Effects on the mind and emotions



Past Month Use vs. Parents' Feelings About Substance Abuse

Past Month	Strongly	Somewhat
Substance Use	Disapprove	Disapprove or
		Neither Approve nor
		Disapprove
Marijuana	4.9%	26.9%
Cigarettes	8.3%	45.3%
Alcohol	13.0%	40.0%

Be a good listener



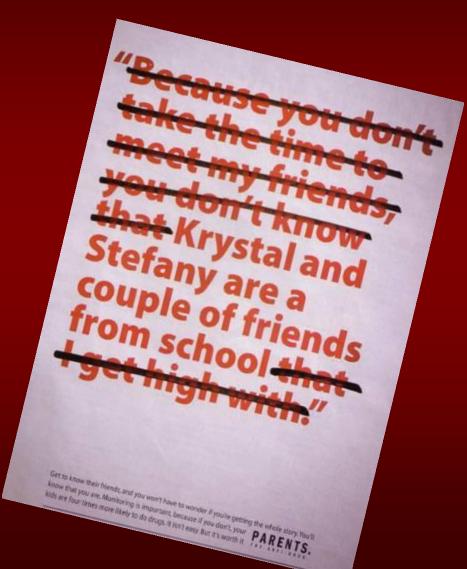


- Give clear no-use messages about alcohol and other drugs
 - Start early, be ongoing
 - Change the nature of your discussion as your child's brain develops through the years

- Help your child deal with peer pressure to use drugs
- Example:
 - If 85% of the students know someone who regularly uses marijuana then...
- Role play situations of refusing to use ATOD

 Get to know your child's friends and parents





- Monitor your child's whereabouts
 - Call other parents,
 find out what's going on...



- Supervise teen activities
 - When parents impose rules and standards of behavior, their teens are at <u>much</u> lower risk …
- Maintain an open and honest dialogue with your child



Parents

 Talk to adolescents about their intentions and attitudes, peer pressure, evaluating peer group

 Use this opportunity as a lead into a role playing situation for refusing to use drugs

Educational campaigns that stress personal responsibility and immediate health and impairment dangers of alcohol and other drugs use are effective prevention tools

Parents

 Recognize your own use as a risk factor for drug use in their children

• If you use alcohol follow the <u>U.S.</u>
<u>Dietary Guidelines for Alcohol</u>
<u>Consumption</u>

U.S. 2010 Dietary Guidelines on Alcohol Consumption

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Binge drinking is the consumption within 2 hours of 4 or more drinks for women and 5 or more drinks for men.

One drink is defined as:

12 fl. oz. of regular beer (150 calories)

5 fl. oz. of wine (100 calories) 1.5 fl. oz. of distilled spirits (100 calories)



Women
Up to 1 drink
per day; no
more than 7
drinks/week

There are many circumstances in which people should not drink alcohol:

- Individuals who cannot restrict their drinking to moderate levels.
- Anyone younger than the legal drinking age. Besides being illegal, alcohol consumption increases the risk of drowning, car accidents, and traumatic injury, which are common causes of death in children and adolescents.
- Women who are pregnant or who may be pregnant. No safe level of alcohol consumption during pregnancy has been established.
- Individuals taking prescription or overthe-counter medications that can interact with alcohol.
- Individuals with specific medical conditions (e.g., liver disease, hypertriglyceridemia, pancreatitis).
- Individuals who plan to drive, operate machinery, or take part in other activities that require attention, skill, or coordination or in situations where impaired judgment could cause injury or death (e.g., swimming).

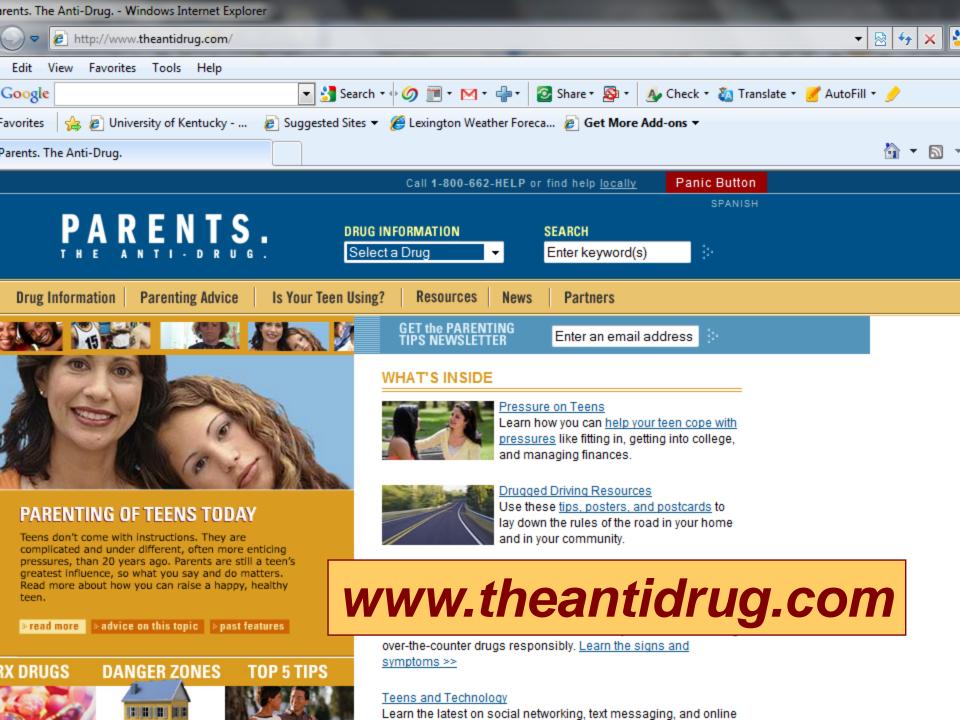
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Men Up to 2 drinks per day; no more than 14 drinks/week

Drug Information Web Sites

www.drugfree.org www.theantidrug.com www.whitehousedrugpolicy.gov www.teendrugabuse.gov www.Abovetheinfluence.com www.ProjectAlert.com www.casacolumbia.org



Remember:

Everybody isn't doing drugs!



Thank you!