



Preventing Prescription Drug Abuse among Adolescents: The Role of Poison Control Centers

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Our Presenters





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PREVENTING PRESCRIPTION DRUG ABUSE AMONG ADOLESCENTS: THE ROLE OF THE POISON CENTER



What we'll do today:

- Define the problem of prescription medicine abuse within a local and national context
- Address adolescent perceptions and attitudes related to prescription drug use and misuse
- Learn about poison centers and how they prevent and treat poisonings related to prescription drugs
- Review resources that you can use to educate about adolescent prescription drug misuse





Defining the problem

- Rx drug abuse = when someone takes a drug for reasons or in ways or amounts not intended by a clinician or when a drug is taken by someone other than the person for whom it's prescribed.
- "Adolescent"= 12-19 year olds
- Commonly abused classes of Rx drugs:

Opioids: for pain

CNS depressants: for anxiety and sleep

disorders

Stimulants: for ADHD and narcolepsy



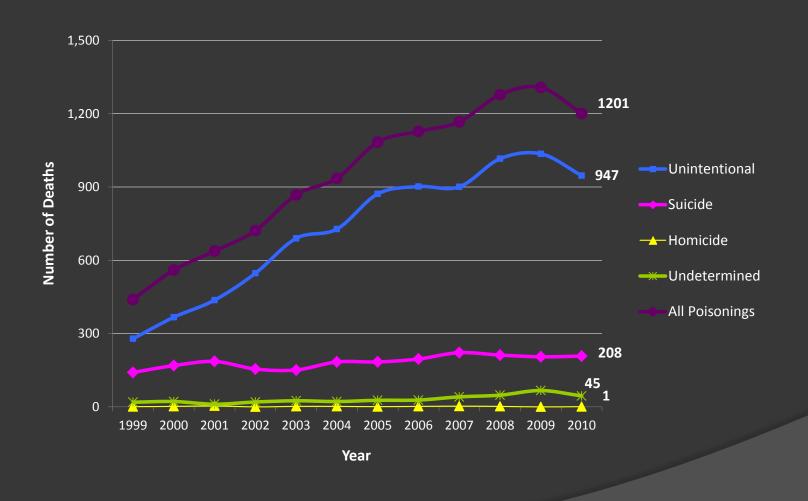
Commonly abused drug classes

	Generic Name	Brand Name Examples		
opioids	Hydrocodone	Vicodin®		
	Oxycodone	OxyContin®		
	Oxymorphone	Opana®		
	Hydromorphone	Dilaudid®		
	Fentanyl	Duragesic®		
CNS depressants	Diazepam	Valium®		
	Alprazolam	Xanax®		
stimulants	Methylphenidate	Ritalin® Concerta®		
	Amphetamines	Adderall®		

Source: National Institute on Drug Abuse



Poisonings in NC





The impact of prescription drugs on NC deaths

- Prescription and over-the-counter drugs contributed to over 3/4 of deaths from unintentional poisonings (2007).
- 56% of deaths were related to opioids (2007).



Why focus on adolescents?

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- From 2000-2009, the poisoning death rate among teens 15-19 nearly doubled (CDC MMWR Vol. 61, No. 15).
- The percentage of poisoning deaths among 15-19 year olds that were related to prescription drugs increased from 30% in 2000 to 57% in 2009 (CDC MMWR Vol. 61, No. 15).
- The peak risk for extramedical use of prescription pain relievers is found to occur at 16 (Archives of Pediatrics and Adolescent Medicine, published online May 7, 2012).
- In North Carolina, nearly 1 in 4 high school seniors have self reported extramedical use of a prescription drug at least once or more in their lifetime (NC Youth Risk Behavior Survey 2011).

Calls to Carolinas Poison Center

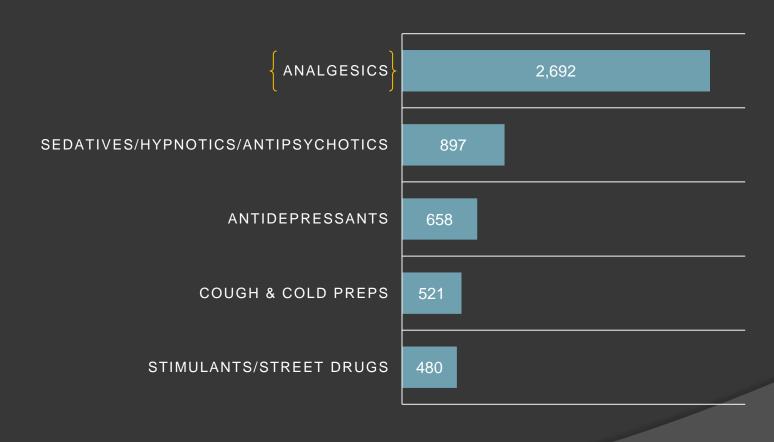


- 43,527 calls received about some type of pain reliever (all ages, 2011-2012/information and exposure calls)
- 6,137 calls concerning prescription pain medications containing opioids (all ages, 2011-2012)
- One out of every four calls in 2012 to the Carolinas Poison Center concerning a 15-19 year old was about a pain reliever (like Vicodin®), antidepressant (like Prozac®), or stimulant (like Adderall®).



5 commonly called about pharmaceutical categories - 2012

calls concerning 13-19 year olds





Types of drug related calls about adolescents that Carolinas Poison Center receives



- A mother calling because she found an unidentified pill in her 13 year-old son's room
- A relative calling because he feared his 13 year-old niece was abusing cough and cold medicine that he bought for her
- A teen calling because her 18 year-old friend took higher doses of her own anti-depressant
- A doctor calling when his 19 yearold patient was hallucinating after taking an unknown substance



How do we reduce adolescent injury and death related to prescription drug exposures?



NC's strategic approach

The Six Goals of Preventing Injuries and Violence

Goal 1: Data and Surveillance

Goal 2: Research and Evaluation

Goal 3: Messaging, Policy and Environmental Change

Goal 4: Saving Lives

Goal 5: Building the Injury Prevention Community

Goal 6: Workforce Development



Campaign target timeline

- Year One audience assessment (2012)
- Year Two campaign implementation (2013)
- Year Three campaign evaluation (2014)



Goal 2: Research and Evaluation

Carolinas Poison Center adolescent focus groups

- one group male rising 7th/8th graders
- one group female rising 7th/8th graders
- one group male/female rising 10th/11th graders
- range of 8-12 participants each





Assessment Objectives

Carolinas Poison Center focus groups

- Explore attitudes and perceptions of prescription drugs:
 - in the home
 - as prescribed by physicians
 - use among family/friends
 - medical/non-medical use
- Explore awareness of prescription drugs as potentially fatal poisons
- Explore awareness of Carolinas Poison Center and its services



Conclusions

12-13 year olds

Were less sure of whether Rx drugs were being misused at school.

Interested in education about Rx drug misuse.

Not always clear about the difference between OTC/Rx drugs.

36% of younger adolescents reported awareness of misuse at school.



Conclusions

15-16 year olds

More were aware that Rx drugs were being misused at school.

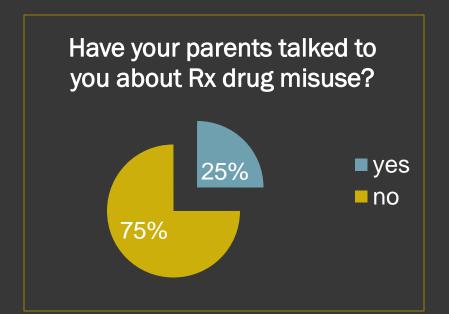
Disinterested in education about Rx drug misuse.

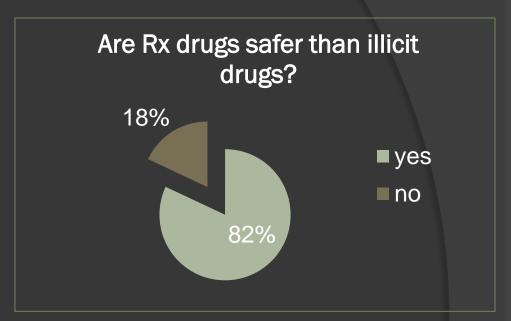
Seemed to be more clear about the difference between OTC/Rx drugs.

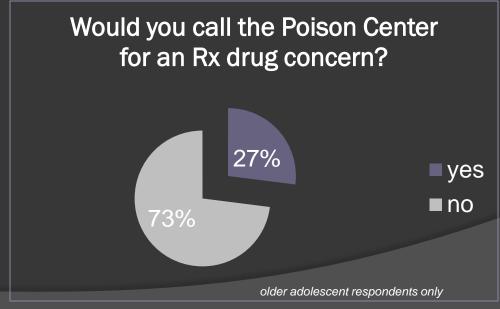
75% of older adolescents reported awareness of misuse at school.



Conclusions analysis









Verbatim

"I think prescription drugs are the hard-to-say ones."

"By the tenth grade, either you're going to do it, or you're not."

"If it's prescribed by a doctor, it must be safer."

"Kids at my school take Ambien® just to mess themselves up."

"I hear more about marijuana and alcohol than I do prescription drugs."

"Kids know the consequences [of non-medical use], but they just want to be cool."

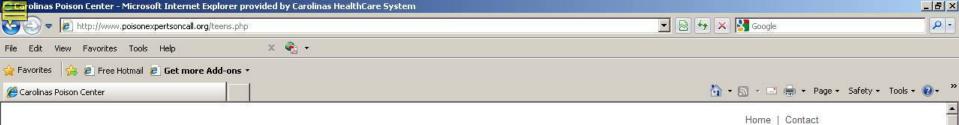
"If it says 'as needed', that can be confusing."

"Some people have major pain, but some people abuse them [Rx drugs]."

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Goal 3: Messaging, Policy, and Environmental Change

- In April 2013, Carolinas Poison Center launched a comprehensive, multi-media campaign targeting adolescents 12-16 years old concerning Rx drug misuse.
 - www.SharingPillsCanKill.com
 - Teen Posters
 - Teen Magnet
 - Teen PSA
 - Parent Rack Card
 - Teen Pack





SHARINGPILLS (ANKILL. COM

Poisoning deaths among 15 to 19-year-olds have nearly doubled in the last decade. It's one of the fastest growing causes of death among teens. And the poison fueling this terrible trend may shock you: prescription drugs. Pain relievers, antidepressants, stimulants and other pills dispensed by a doctor for a family member or friend can be deadly if shared or misused in other ways.

Carolinas Poison Center is available 24/7 to help with your questions and concerns. Nurses and pharmacists handle all calls confidentially and free of charge. Please put this number in your phone: 1-800-222-1222.

CLICK HERE

to order free materials about preventing prescription medicine abuse for you or someone you know.

SHARING PRESCRIPTION PILLS (AN KILL A FRIENDSHIP.

Carolinas Poison Center can help if someone has accidentally or intentionally:

- · taken another person's medicine
- · taken too much of his or her own medicine



Carolinas Poison Center is a division of



AWARENESS SAVES LIVES.

Painkiller abuse is second

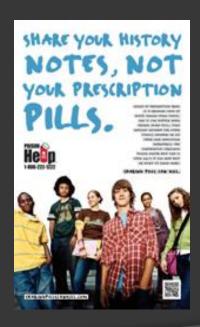
only to marijuana abuse among people ages 12 or older.3



Sharing Pills Can Kill Campaign print collateral











PRESCRIPTION DRUG ABUSE AMONG TEENS

OFTEN BEGINS AT HOME

LUCKILY, SO DOES

[AWARENESS]

A growing cause of death among teens is prescription drug misuse. Iragedy happens when medication is taken incorrectly and when triands share pills. Most parents are unaware of this epidemic and that deadly drugs are often obtained in a home medicine actional. Carolinas Poison Centro has a confidential, 24-hour help line staffed by experts who can answer your questions about prescription drug abuse and your child. Awareness saves lives.



NEARLY TWICE AS MANY TEENS ARE DYING FROM POISONINGS THAN A DECADE AGO... AND MANY OF THOSE DEATHS ARE RELATED TO PRESCRIPTION DRUGS.*



poisonexpertsoncali.org



Carelinas HealthCare System

MISSY RECEL VOL. 61, NO. 18

Sharing Pills Can Kill Campaign online collateral





Sharing Pills Can Kill PSA





Goal 3: Messaging, Policy and **Environmental Change**

coverage saturation

- Two 2-month print/video runs across North Carolina
- Ads published in regional magazines with a combined readership of over 300,000
- PSA video spot played 306 times on cable TV
- Time Warner Cable "email takeover"
- Nearly 700,000 impressions of PSA spot running as online news segment sponsorships on major local network news sites
- Sent toolkits (posters/magnets/rack cards) to 287
 pediatric offices, hospitals, and schools across the state.

Percentage of calls to total call volume for that age group

Goal 2: Research and **Evaluation**

calls concerning 13-19 yo's pre and post intervention

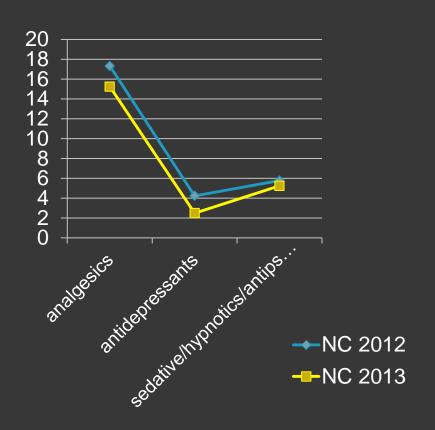
	NC only		All PCs	
Drug Category	2012	2013*	2012**	2013*
Analgesics	17.32%	15.24%	17.24%	18.59%
Sedatives/hypnotics/antipsychotics	5.77%	5.24%	6.26%	7.32%
Antidepressants	4.23%	2.49%	5.85%	5.64%

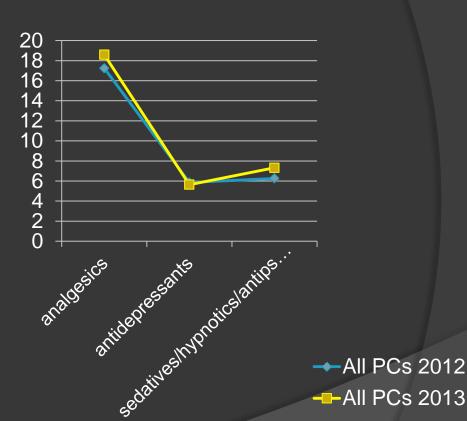


Goal 2: Research and Evaluation

calls concerning 13-19 yo's









Goal 2 – Research and Evaluation

Pilot pediatric clinic evaluation

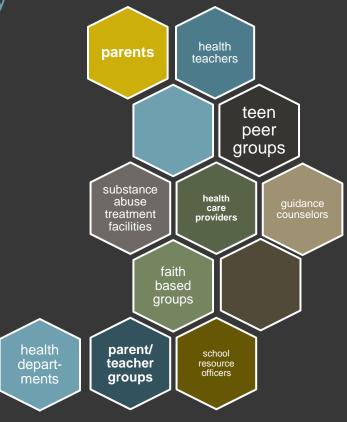
 Carolinas Poison Center working with UNC Injury Prevention Research Center (IPRC) to measure success of teen/parent outreach at pediatric clinic setting.

Did education piece or point of contact visit with physician impact behavior change or prompt parental discussion among teens regarding Rx misuse?



Recommendations

Goal 5: Building the Injury Prevention Community





Recommendations (Cont.)

5 Things You Can Do

- 1. Collaborate with substance abuse treatment centers to integrate Rx drug misuse as part of their drug education, especially their outreach efforts with schools.
- 2. Work with school resource officers (police officers) who are assigned to primary and secondary schools to promote awareness through classroom discussion, assemblies, and drug education awareness events.
- Contact your poison center and speak with an educator about how you can partner with each other: 1-800-222-1222.
- 4. Become a part of parent/teacher organizations in your community to drive awareness of this issue. Many schools sponsor education sessions for parents and children.
- 5. Help teens become ambassadors of Rx medicine safety. Host your own medicine safety event, send out a press release, or find out if your community has teen advisory boards.



Recommendations

(Cont.)

- Consider targeting younger adolescents (rising middle school students/middle school students) for outreach.
- Promote your local poison center as a place to get help.



Poll Question



America's Poison Centers (PCs)



- 56 PCs in the U.S.; provide free, expert information and treatment advice, 24/7, through the national Poison Help line: 1-800-222-1222
- Cover of 100% of U.S. population; 150 languages.
- \$1 spent on PCs saves \$13.39 in HC costs and lost productivity.
- Provide extensive educational and preventive outreach through educators.
- National Poison Data System (NPDS)- the only near real-time comprehensive poisoning surveillance database in the US.





"Making Connections"-

http://poisonhelp.hrsa.gov/resources/videos/making-connections/index.html



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United States Poison Centers



For more information about poison centers, visit www.aapcc.org.

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How Poison Centers can help treat drug-related exposures



If someone has taken an unknown pill



If someone has intentionally or unintentionally taken more medicine than prescribed



If someone has mixed alcohol or other drugs with pills



If someone is seeking more information about signs of drug abuse or is seeking prevention information



AAPCC NPDS 2012 Data



- PCs managed 3.3 million cases; a new case every 10 seconds.
- 2.2 million human exposures; about 7% are 13-19 year olds.
- About 50% of all reported human exposures involve pharmaceuticals, 62% of exposures in 13-19 year olds.

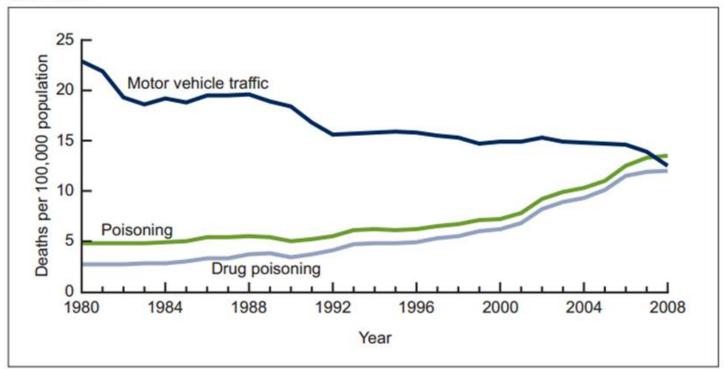
From AAPCC NPDS 2012 Annual Report		
Top 5 substance categories involved in all human exposures*	Top 5 substance categories involved in human exposures <6yrs**	Top 5 substance categories involved in human exposures 13-19 years**
Analgesics (12%)	Cosmetics, personal care products (14%)	Analgesics (17%)
Cosmetics, personal care products (8%)	Analgesics (10%)	Antidepressants (6%)
Household cleaning substances (7%)	Household cleaning substances (10%)	Sedative, hypnotics, antipsychotics (6%)
Sedatives, hypnotics, antipsychotics (6%)	Foreign bodies, toys, miscellaneous (7%)	Stimulants and street Drugs (6%)
Foreign bodies toys, miscellaneous (4%)	Topical preparations (6%)	Cold and cough preparations (6%)
* Based on total case mentions, table 22		

^{**} Based on single substance exposures, table 22. Single substance exposures account for 89% of all human exposure cases.



Poisoning is now the leading cause of death from injuries in the United States and nearly 9 out of 10 poisoning deaths are caused by drugs.

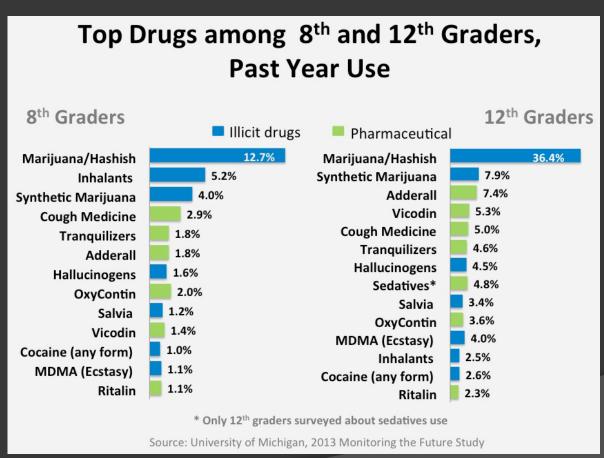
Figure 1. Motor vehicle traffic, poisoning, and drug poisoning death rates: United States, 1980–2008



NOTE: In 1999, the International Classification of Diseases, Tenth Revision (ICD-10) replaced the previous revision of the ICD (ICD-9). This resulted in approximately 5% fewer deaths being classified as motor-vehicle traffic-related deaths and 2% more deaths being classified as poisoning-related deaths. Therefore, death rates for 1998 and earlier are not directly comparable with those computed after 1998. Access data table for Figure 1 at http://www.cdc.gov/nchs/data/databriefs/db81_tables.pdf#1. SOURCE: CDC/NCHS, National Vital Statistics System.



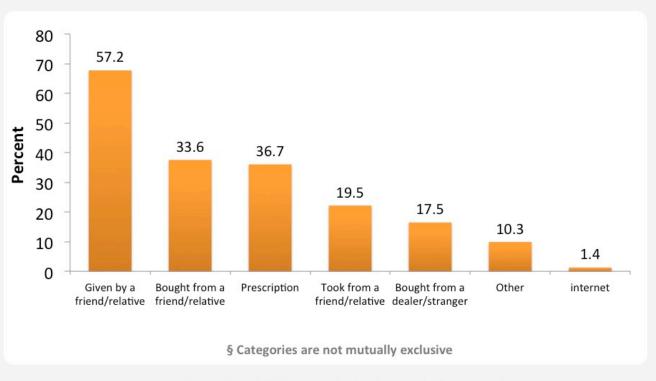
- "In 2013, 21.5 percent [of 12th graders] indicate use without a doctor's orders of at least one prescription drug in their lifetime."- 2013 Monitoring the Future Study
- "[In 2011,] 20.7% of students had taken prescription drugs without a doctor's prescription one or more times during their life."- 2011 Youth Risk Behavior Surveillance System





Where are adolescents getting Rx drugs?

Source of Prescription Narcotics among Past Year Non-medical Users, 12th Grade§



Source: University of Michigan, 2013 Monitoring the Future Study



Poison Centers' Efforts

- Partner with health departments, departments of education, other state agencies, etc.
- Provide trainings to school nurses, teachers, and support staff.
- Collaborate to develop media campaigns- billboards, audio/video ads, bus wrap ads, etc.
- Participate in crime prevention and drug prevention coalitions.
- Provide data on PC calls to the media and local drug control officials to create awareness about local and regional emerging drug trends, often before national data are available.
- Promote the use of community drug take-back programs to encourage proper disposal of old or unneeded medications.
- Promote safe Rx medication use and storage messaging at health fairs and community events.
- Work with substance abuse treatment centers.
- Promote over-the-counter (OTC) medication literacy to promote the safe and appropriate use of <u>all</u> medications, early on. See http://www.scholastic.com/otcliteracy/.

Connecting to resources

Resources available by:

- Visiting http://www.aapcc.org/centers/ to find your poison center.
- Calling your Poison Center and asking to speak to an educator: 1-800-222-1222
- Viewing online: www.SharingPillsCanKill.com
- Viewing online: http://poisonhelp.hrsa.gov/resources/videos/making-connections/index.html

Questions?

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