Opioid Misuse in Adolescents: Prevention and Detection

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DISCLOSURES

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Upon successful completion of this activity One (1) contact hours will be awarded

Successful completion of this continuing education activity includes the following:

- Attending the entire CE activity;
- Completing the online evaluation by May 10;
- Submitting an online CE request by May 10

Your certificate will be sent via email.

If you have any questions about this CE activity, contact Lori Weber at lweber@cardeaservices.org or 512-982-9168.



CONFLICT OF INTEREST

The planners and presenters of this activity have no relevant financial relationships with any commercial interests pertaining to this activity.

Acknowledgement

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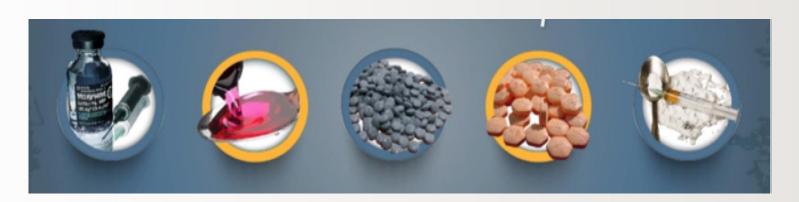




WHAT ARE OPIOIDS?

What are Opioids?

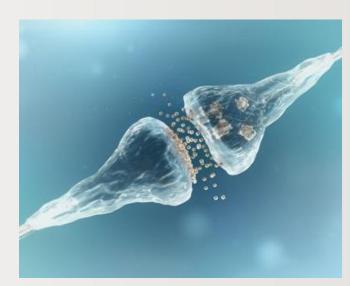
Type of Opioid	Examples
Natural opioids (sometimes called opiates)	Morphine, Codeine, Thebaine
Semi-synthetic	Hydromorphone, Hydrocodone, Oxycodone, Heroin
Fully synthetic	Fentanyl, Methadone, Tramadol



Source: National Institute on Drug Abuse

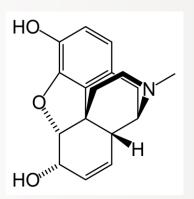
The Opioid System

- Controls pain, reward, and addictive behaviors
- Opioids attach to and activate opioid receptor proteins
- Opioids suppress perception of pain and calm emotional response to pain

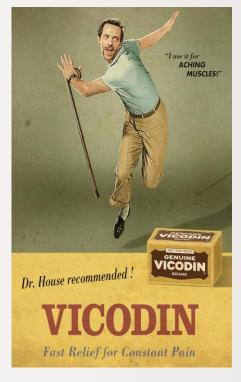


Opioid History







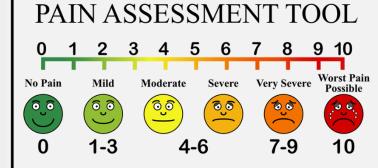






Pain in the United States

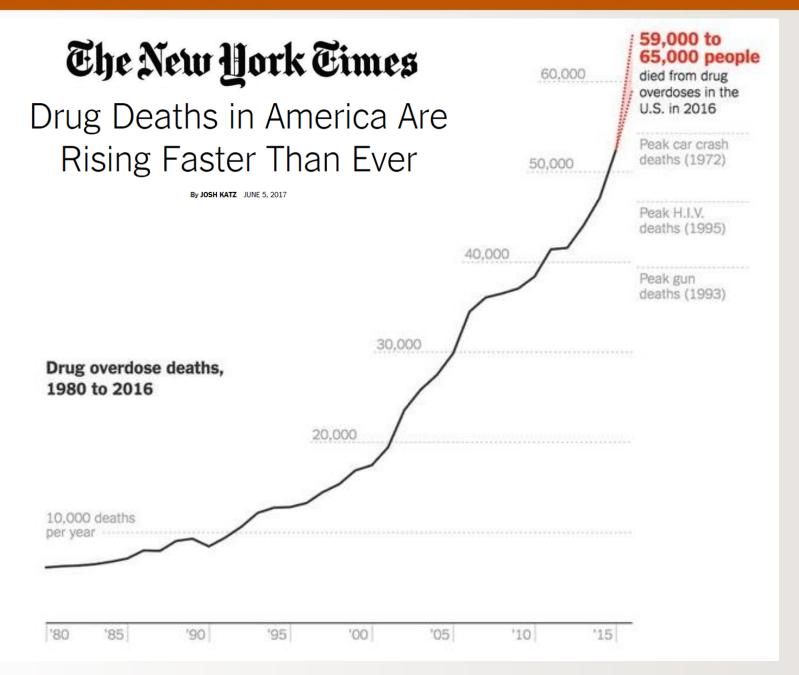
- In 2016, nearly one in five adults had chronic pain in the past six months
- Estimated cost of \$635
 billion
- Late 1990s, pain was recognized the fifth vital sign



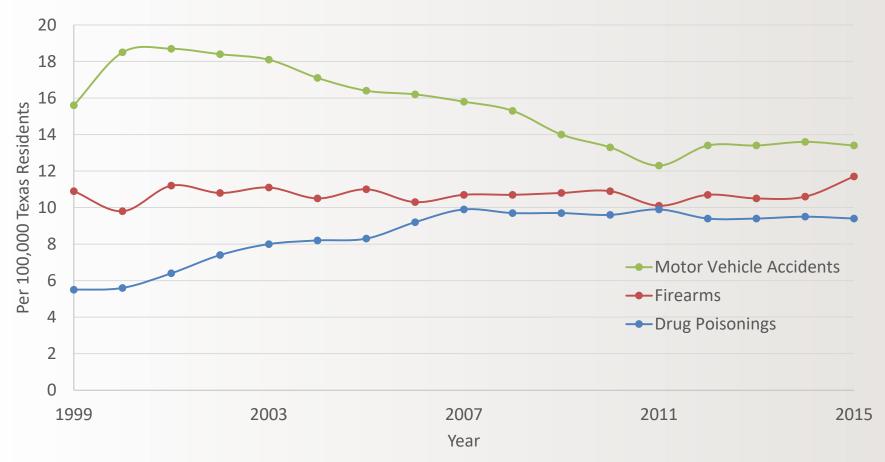
Sources:

QuickStats: Age-Adjusted Percentage of Adults Aged ≥18 Years Who Were Never in Pain, in Pain Some Days, or in Pain Most Days or Every Day in the Past 6 Months, by Employment Status — National Health Interview Survey, United States, 2016. MMWR Morb Mortal Wkly Rep 2017;66:796.

Gaskin, D.J., & Richard, P. (2012). The Economic Costs of Pain in the United States. The Journal of Pain, 13 (8), 715.

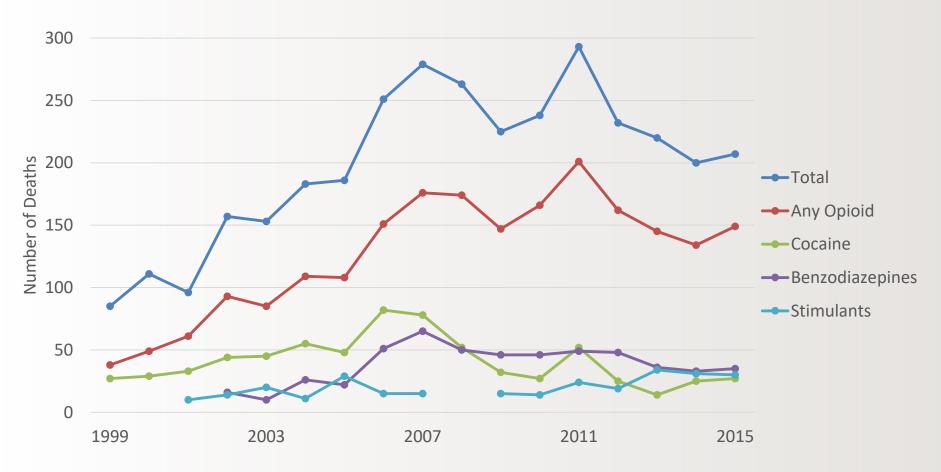


Trends in Injury-Related Deaths among Texas Residents: 1999-2015



Source: Texas Death Certificates
Prepared by Texas Department of State Health Services, Center for Health Statistics 3/6/2018
Injuries are from all manners, including unintentional, suicide, homicide, undetermined intent, and legal intervention.
Drug poisoning deaths include those resulting from drug overdose and other misuse of (legal and illegal) drugs.

Accidental Poisoning Deaths among 15-24 Year Olds in Texas: 1999-2015



Source: Texas Death Certificates
Accidental Poisonings based on County of Occurrence
Prepared by Texas Department of State Health Services, Center for Health Statistics 3/6/2018

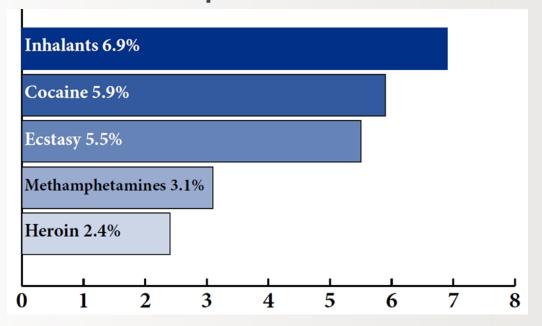
Illicit Drug Used Among Texas High School Students – YRBS

- Marijuana is by far the most commonly used illicit drug among Texas high school students.
- Over the past 10 years, illicit drug use has decreased among Texas high school students for all substances except heroin and marijuana which have remained steady.

Source: Illicit Drug Use; Texas Department of State Health Service; Texas Youth Risk Behavior Survey, January 2018

Illicit Drug Used Among Texas High School Students – YRBS

 Other illicit drugs used by Texas High School students include opiates like heroin.

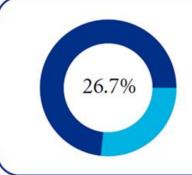


Lifetime Use of Illicit Drugs by Texas High School Students, 2017 Texas Youth Risk Behavior Survey (YRBS)

YRBS Data



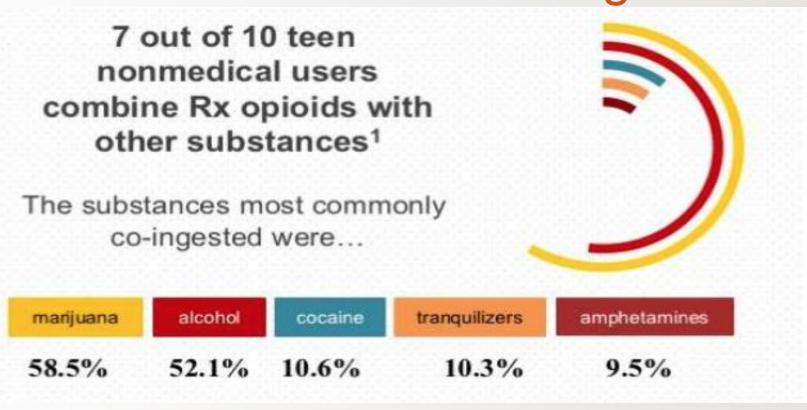
About 1 in 7 (14.9%) Texas high school students took opioids without a prescription or differently than how they were prescribed.



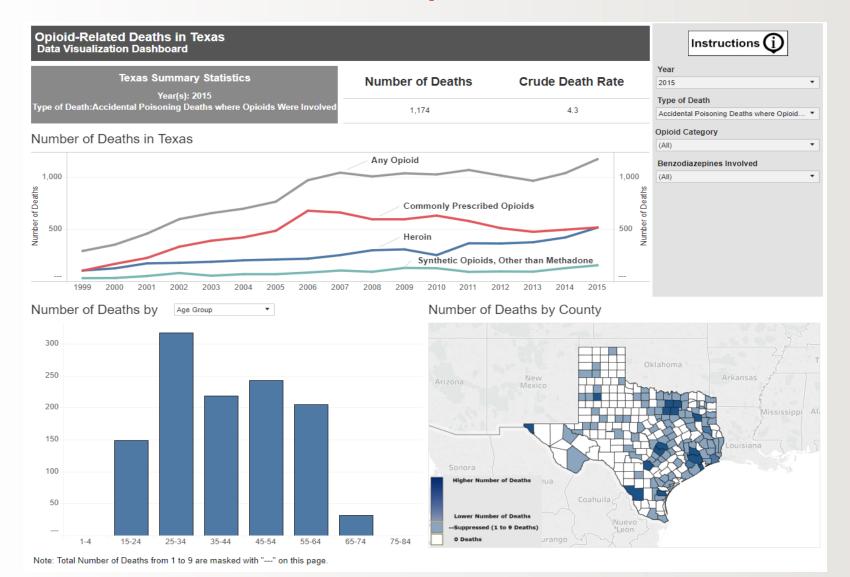
More than 1 in 4 students (26.7%) were offered, sold, or given an illicit drug on school property in the past 12 months. This rate has remained steady despite decreases in drug use.

Source: Illicit Drug Use; Texas Department of State Health Service; Texas Youth Risk Behavior Survey, January 2018

Overdose Often Occurs Due to Combination of Opioids with Alcohol and Other Drugs



Texas Health Data: Opioid-Related Deaths



WHAT IS ADDICTION?

Addiction

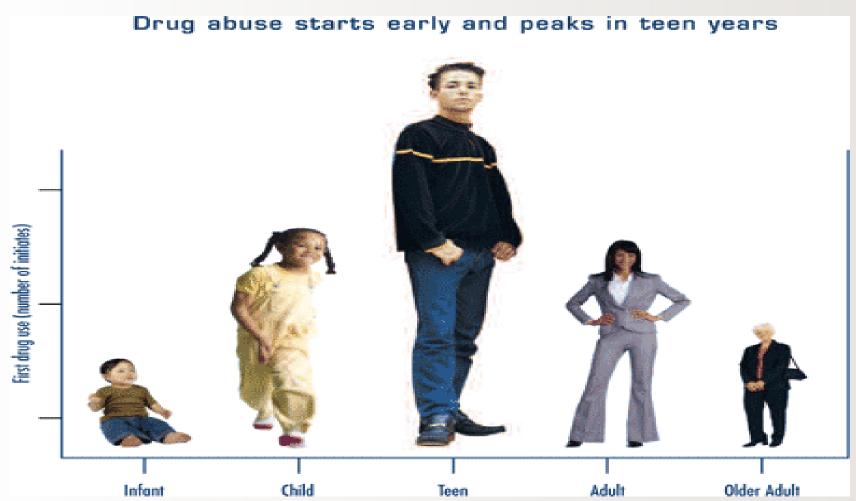
"Ad-dictum"

In Roman law, a court award of one person to another (e.g. a debtor to a creditor); surrender to a master.

Notion of slavery.



Drug Use Starts Early and Peaks in Adolescence





 Adolescence is a period of profound brain maturation.

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INSIDE THE

ADOLESCENT : : !

The brain undergoes two major developmental sports, one in the womb and the second from

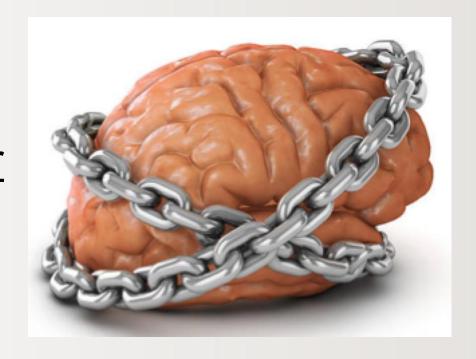
from the back of the brain to the front

childhood through the teen years, when the organ matures by fits and starts in a sequence that moves Nerve Proliferation ...

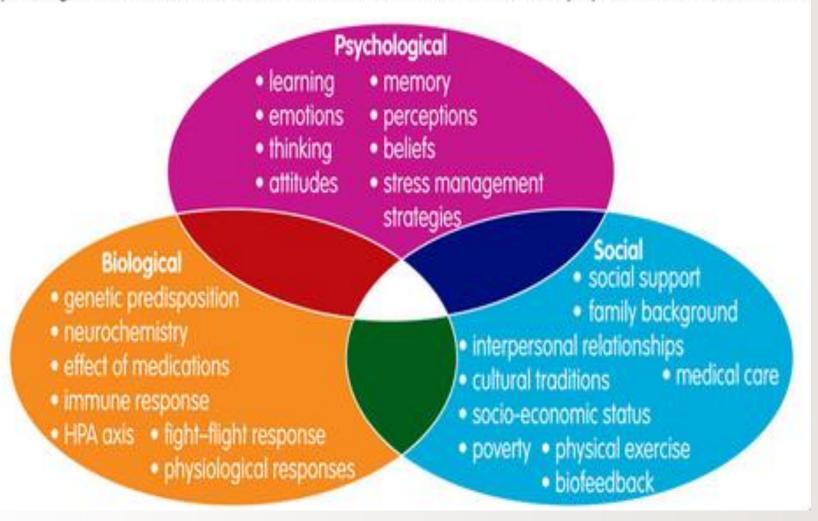
recurrence to the factor of the breat bases foreigned. Discussed to the empressions. Over the resu Developing Brain =



- During adolescence, the developing dopamine system is "robust"
- This creates a greater risk of the dopamine hijacking process for the developing brain, compared to an adult brain



 biopsychosocial framework: an approach to describing and explaining how biological, psychological and social factors combine and interact to influence physical and mental health



RISK FACTORS FOR OPIOID MISUSE

Teenagers at highest risk: Opioid misuse higher in youth with . . .

- History of delinquent activities
- Recent mental health, trauma or emotional problems
- Involvement with the illicit drug market
 - More than one-third (39%) of those who had ever sold illicit drugs self-reported misusing prescription opioids during the previous year
- Lenient attitudes of people their age trying marijuana
- Association with more marijuana-using classmates
- Little attendance at religious services
- Concurrent alcohol and tobacco and nearly endemic among users of illicit drugs

News flash . . .

Though it gets less press, the opioid epidemic has been hitting teens and children hard, with hospitalization rates for opioid exposures nearly doubling for teens and more than doubling for kids under 5 between 1997 and 2012.

This is due to

- Family member's prescriptions, now declining.
- Improper storage (medicine cabinets, purses, counter tops)
- About a third of recreational and other non-medical use by teenagers included leftover drugs from their own past prescriptions

Warning Signs

- family substance abuse
- truancy or sudden grade drop
- change in peer group
- quitting important activities
- legal difficulties
- drug-related paraphernalia

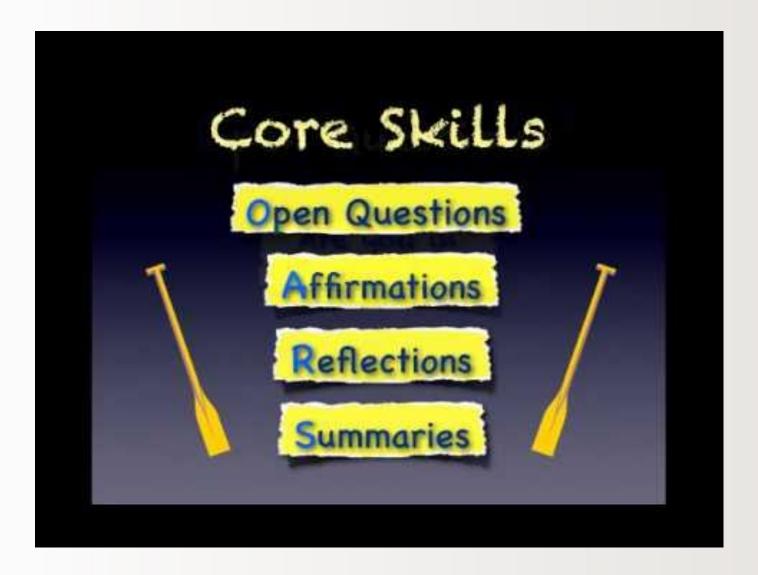
- unknown source of income
- physical changes
- "hanging out" in strange places
- justification of use due to stressors



TOOL KIT: How to talk about drugs

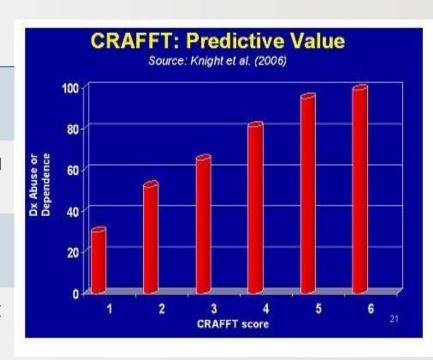
- Set a respectful and inquisitive, intimate and safe tone
- Do not interrupt
- You cannot change someone they must choose change
- Don't make assumptions there is no typical "profile" for substance misuse and addiction
- Listen more than talk reflect what you hear don't try to FIX
- Be candid and nonjudgmental
- Affirm perspective, feelings, and freedom of choice
- Ask questions tentatively
- Be patient and do not get defensive people with substance use problems may turn the conversation quickly to make the person asking lose balance
- Use non-stigmatizing language

Practice MI: Use Your OARS



Assessment/Screening Tool: CRAFFT

- C Have you ever ridden in a **car** driven by someone (including yourself) who was "high" or had been using alcohol or drugs?
- **R** Do you ever use alcohol or drugs to **relax**, feel better about yourself, or fit in?
- A Do you ever use alcohol or drugs while you are by yourself, alone?
- **F** Do you ever **forget** things you did while using alcohol or drugs?
- P Do your **family** or **friends** ever tell you that you should cut down on your drinking or drug use?
- T Have you ever gotten into **trouble** while you were using alcohol or drugs?



Referrals and Resources

- Outreach, Screening, Assessment, and Referral Centers (OSARs)
 - https://www.dshs.texas.gov/sa/OSAR/
- Peer Coaches
- Treatment Centers
- Detox
- Recovery ATX and TONI