Rx Opioids & their Kissing Cousin Heroin:

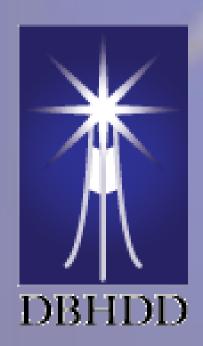
"Strategies for Impacting a Georgia Crisis"

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The Georgia Prescription Drug Abuse Prevention Initiative is made possible by the

Office of Behavioral Health Prevention

Division of Behavioral Health

Georgia Department of Behavioral Health

& Developmental Disabilities

Very Important!

Prescription drugs are useful in improving many conditions when used exactly as directed by a physician. Do not stop taking any prescription medication without first consulting with your physician.

- 1. Know the "Why" & Science of Rx Opioids & Heroin
- 2. Identify the Driving Forces around Rx Opioids & Heroin
- 3. Apply Practical Community & Environmental Strategies to Crisis
- 4. The PDMP as an Environmental Tool to Prevent Rx Opioid Abuse

Rx Opioids & It's Cousin Heroin

- Most addictive and dangerous of all legal and street drugs
- Dr. Nora D. Volkow, Director of NIDA wrote on May 14, 2014 that, "It is estimated that between 26.4 million and 36 million people abuse opioids worldwide, with an estimated 2.1 million people in the United States suffering from substance use disorders related to prescription opioid pain relievers in 2012 and an estimated 467,000 addicted to heroin."

Top 10 Abused Drugs In Georgia

- 1. Nicotine
- 2. Alcohol
- 3. Marijuana/hashish (cannabinoids)
- 4. Vicodin (hydrocodone) (Opioid) Rx Drug
- 5. Cough med. (hydrocodone, Codeine) Rx Drug
- 6. Adderall (stimulant for ADHD) Rx Drug
- 7. Tranquilizers (Ativan, Xanax) Rx Drug
- 8. Salvia (dissociative drug)
- 9. Hallucinogens (Spice, K-2, LSD)
- 10. OxyContin (oxycodone) (Opioid) Rx Drug

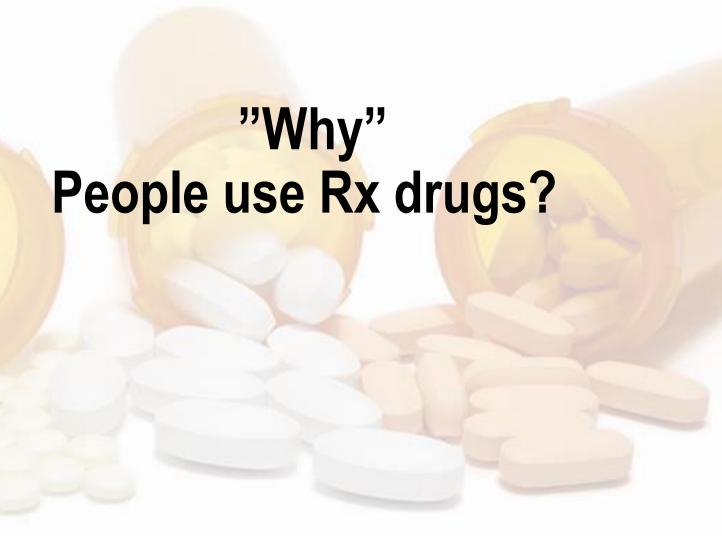
Prescription Drug Abuse

129 OD Deaths a Day

http://www.129aday.org/

The equivalent of a jumbo jet full of passengers disappearing every two days.





Why?

Because "they" work!

Why?

Human beings everywhere regardless of race, religion, sexual orientation, profession, education, or any other characteristic, are motivated by the

Experience of Pleasure or Avoidance of Pain.

It is just that simple!

Brain Chemistry is Complex yet Simple

...with biological, environmental, sociological and psychological components

Opioids & the Body

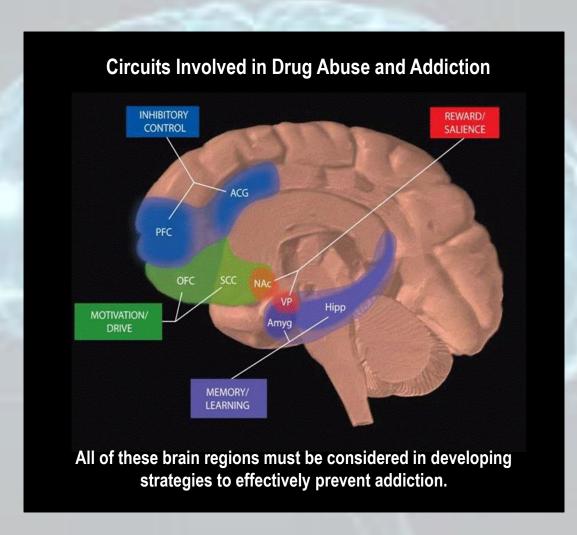
Opioids affect many places in the brain and nervous system, including:

- the limbic system, which controls emotions. Opioids create feelings of pleasure, relaxation, and contentment.
- the brainstem, which controls things your body does
 automatically, like breathing. Opioids slows breathing, may stop
 coughing, and reduce feelings of pain.
- the **spinal cord**, which <u>receives sensations from the body before</u> sending them to the brain. Opioids <u>decrease feelings of pain</u>.

Rx Drugs Take Over The Brain

- Repeated Rx drug exposure results in synaptic changes
- Synapses in the brain are where brain cells or neurons signal to each other by releasing and receiving neurotransmitters, like dopamine.
- These synaptic changes cause the drug user to rely on the drug to the point where if they do not take the drug they will experience withdrawal symptoms and cravings.

Opioids & Addiction



Addictive drugs can stimulate the reward pathway in the brain which triggers the release of dopamine.

The release of dopamine will cause the person to crave the drug more.

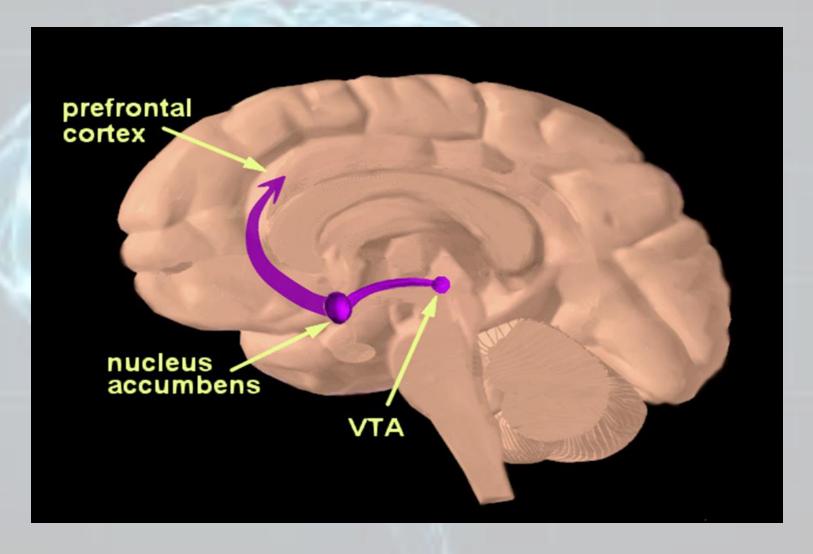
Prescription Drugs Can Cause Addiction

After an unpredictable amount of time of taking an addictive drug, the brain can no longer make dopamine on its own.

Without the drug the person will feel *Dis-eased* & usually *De-pressed* & will need the drug just to feel normal.

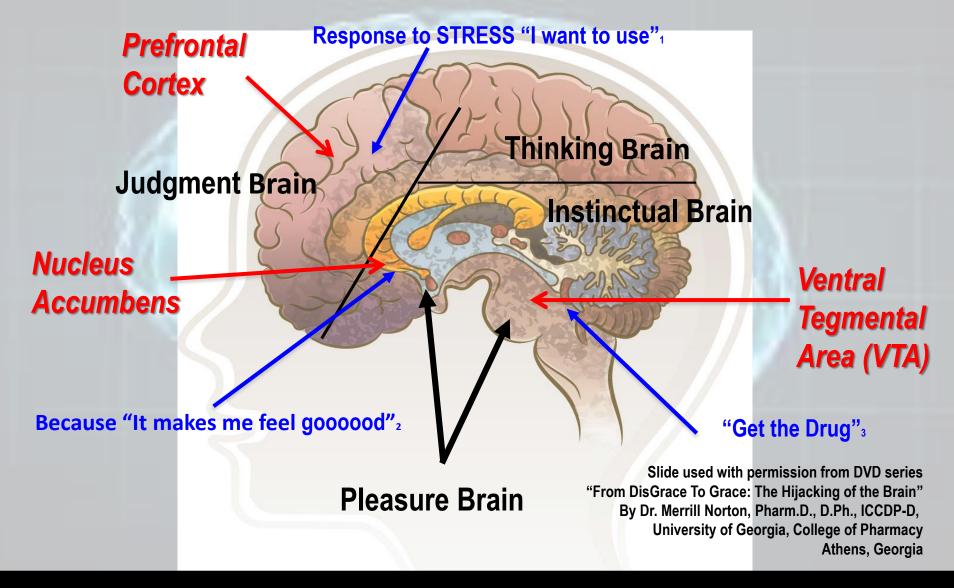
A common reframe from some that uses drugs is, "It makes me feel RIGHT, GOOD or NORMAL!"

Brain Reward Pathways

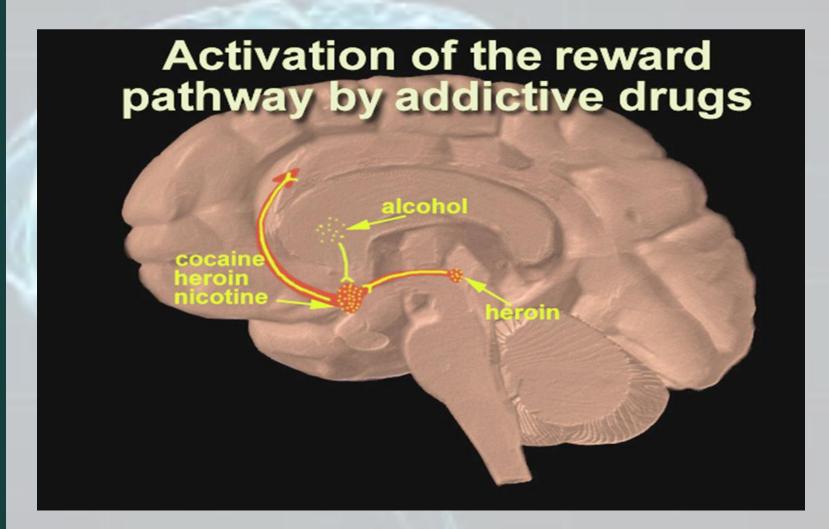


Brain Reward Pathways

"Starts with "Stressful Event"



Activation of Reward



Drugs Highjack Brain Circuits & Motivational Priorities



Rx Drugs and Heroin: Driving Forces

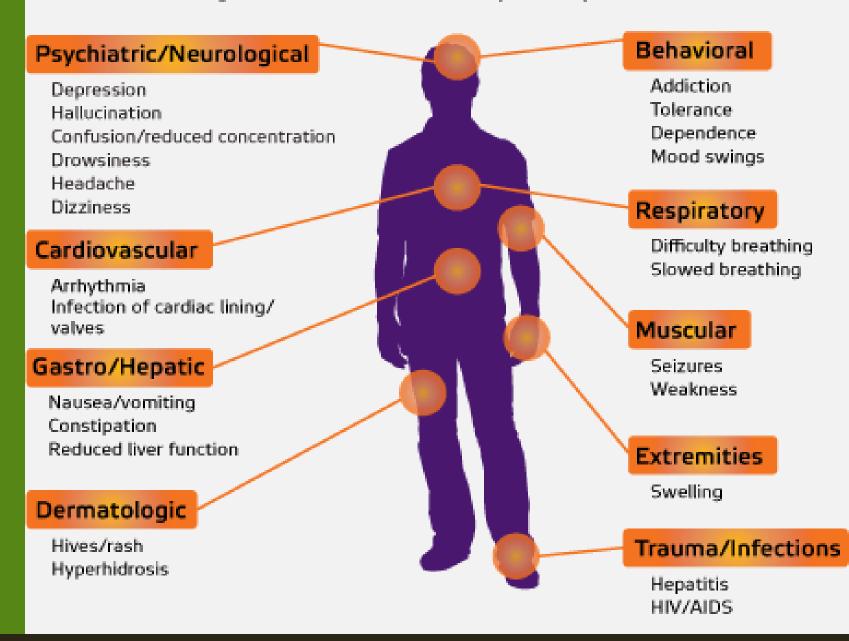
 Rx Opioids Access going Down & Price going Up "Supply vs. Demand"

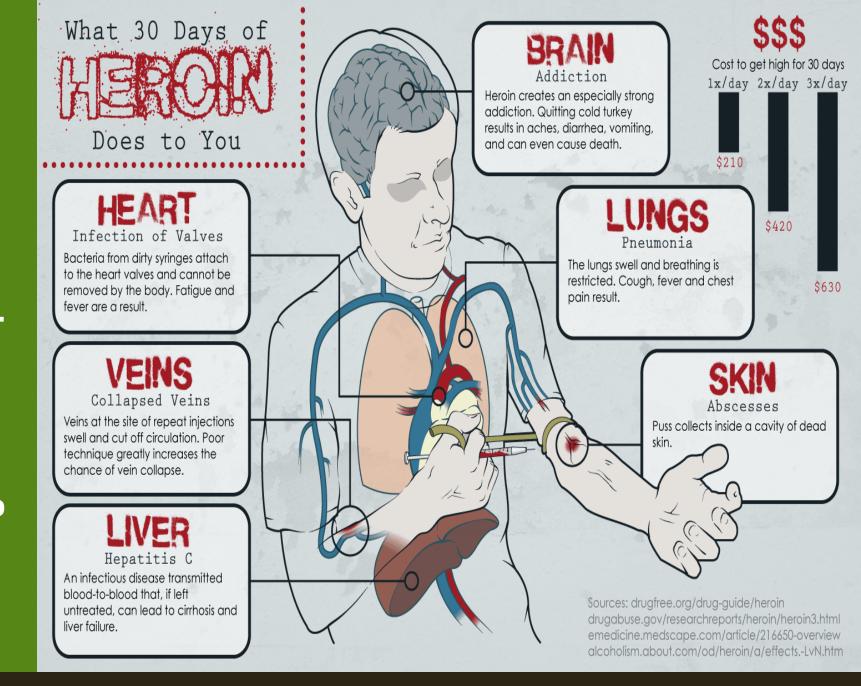
While Heroin Ease of Access going Up & Cheap Price



Brain Chemistry: A "New High"
 Reward Brain vs. Anti-Reward Brain?

Long-term medical effects of opioid dependence¹⁻³





Opioids "Our Pain is Killing Us"



http://www.drugfree.org/heroin





https://www.youtube.com/watch?v=UtMi9ciJN70



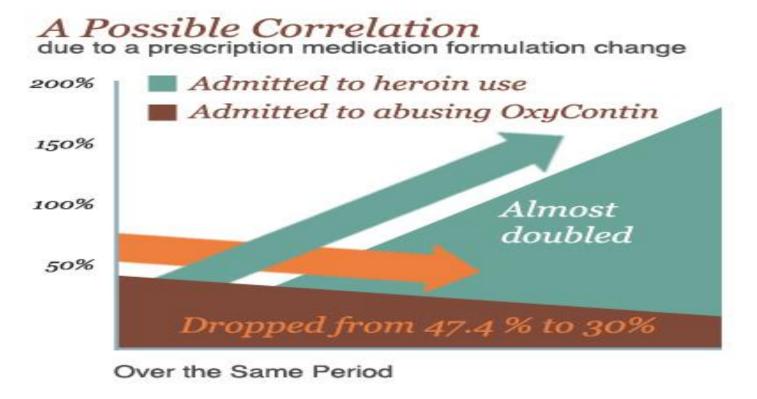
Heroin - a narcotic (opiate) - extracted from the poppy plant. White / brown powder or black sticky substance, known as "black tar heroin."



• Fentanyl - a narcotic (opiate) painkiller (analgesic) 50 to 100 Xs more potent than morphine. Typically used after surgery or to treat patients with severe pain.



Fentanyl-laced heroin - In March, 2015 the Drug Enforcement Agency (DEA) issued a nationwide alert in response to a surge in OD deaths. *Up to 100 times more powerful than morphine and 30-50 times more powerful than heroin alone.*



 As gov. regulation of Rx opioids increased the use of cheap readily available heroin increased. This coupled with the user of Rx opioids needed "a better HIGH" so they turn to heroin that is 50x more powerful than Rx opioids (intravenous).

*** Now available in Canada via prescription.

Heroin use is part of a larger substance abuse problem.

Nearly all people who used heroin also used at least 1 other drug.

Most used at least **3** other drugs.

Heroin is a highly addictive opioid drug with a high risk of overdose and death for users.

People who are addicted to...









are

...more likely to be addicted to heroin.

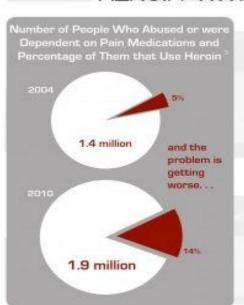
SOURCE: National Survey on Drug Use and Health (NSDUH), 2011-2013.

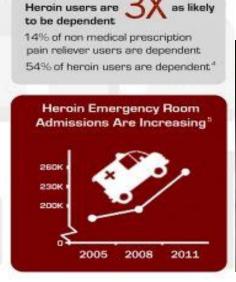
ABUSE OF PRESCRIPTION PAIN MEDICATIONS RISKS HEROIN USE

In 2010 almost 1 in 20 adolescents and adults – 12 million people – used prescription pain medication when it was not prescribed for them or only for the feeling it caused. While many believe these drugs are not dangerous because they can be prescribed by a doctor, abuse often leads to dependence. And eventually, for some, pain medication abuse leads to heroin.

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PEOPLE WHO TAKE NON MEDICAL PRESCRIPTION PAIN RELIEVERS WILLTRY HEROIN WITHIN 10 YEARS





4 out of 5 heroin users



had previously used painkillers.

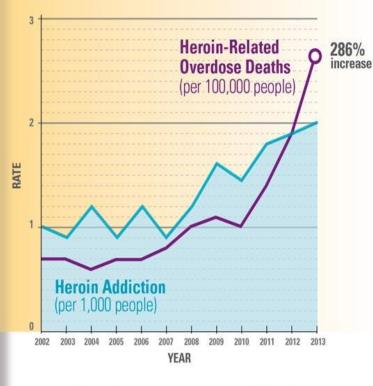
Source: White House Office of National Drug Control Policy



Heroin Use Has INCREASED Among Most Demographic Groups

	2002-2004*	2011-2013*	% CHANGE
SEX			
Male	2.4	3.6	50%
Female	0.8	1.6	100%
AGE, YEARS			
12-17	1.8	1.6	-
18-25	3.5	7.3	109%
26 or older	1.2	1.9	58%
RACE/ETHNICITY	-		
Non-Hispanic white	1.4	3	114%
Other	2	1.7	127940
ANNUAL HOUSEHOLD INC	OME		
Less than \$20,000	3.4	5.5	62%
\$20,000-\$49,999	1.3	2.3	77%
\$50,000 or more	1	1.6	60%
HEALTH INSURANCE COVE	RAGE		
None	4.2	6.7	60%
Medicaid	4.3	4.7	-
Private or other	0.8	1.3	63%

Heroin Addiction and Overdose Deaths are Climbing



SOURCES: National Survey on Drug Use and Health (NSDUH), 2002-2013.

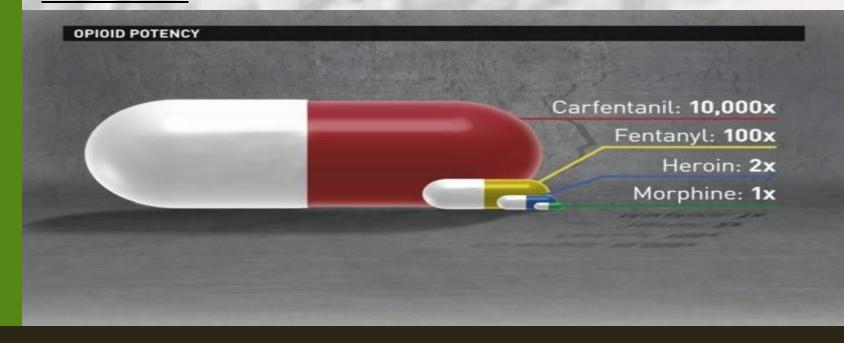
National Vital Statistics System, 2002-2013.

Rx Opioids - Heroin - Carfentanil Connection



September 22, 2016 - (Washington, D.C.)

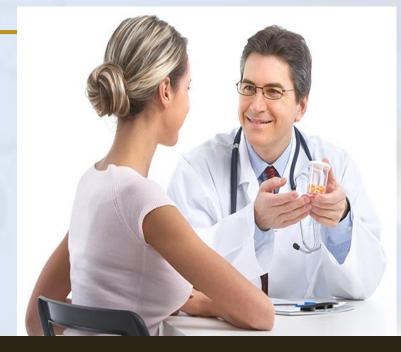
The "DEA has issued a public warning to the public and law enforcement nationwide about the health and safety risks of *Carfentanil*. *Carfentanil* is a synthetic opioid that is 10,000 times more potent than morphine and 100 times more potent than fentanyl, which itself is 50 times more potent than HEROIN."



- Example "Example is not the Main Thing it is the Only Thing"
 - Coping Show them
- Educate Social Norms "Society's Unwritten Rules"
- 1. If it's Legal it must be Safe 3 drugs that kill the most are all legal tobacco, alcohol & Rx Drugs
 - 2. Don't deal with your Suffering or Pain directly Because it will overwhelm you
- 3. Pills are the Answer to Human Suffering & Confusion

 See only one primary physician and one pharmacy whenever possible.

 If U R unsure about taking opioids ask for help.



- NO sharing U Rx "It is not nice"
- Follow the directions and dosage provided by their physician.
- Properly STORE and DISPOSE

- Ask friends and family to safeguard meds by "Locking Them Up"
- Report any individuals who are selling Rx drugs or forging Rx to the police.
- Be aware you may be in close contact with someone that abuses or is addicted to Rx drugs.

Environmental Strategies: Decreasing Rx Opioid Abuse

- Decrease youth ACCESS to Rx Drugs
- Presence
- Advocacy



- Organizational Example (Drug Free Workplace)
- Provide positive alternatives



DID YOU KNOW?

The PDMP as an Environmental Tool to Prevent Rx Opioid Abuse

Started with prescription drugs before transitioning to Heroin

als currently addicted to Heroin, 82% began misusing prescription opioids. Many which began with a legitimate medical necessity for pain relief

Thank you for your Time & Attention!



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