Richland County Addiction RC Safety Council Edition



Facts, Physiology, More Facts, and Future Hope Joseph Bocka MD

8/6/1

Someone just died of a drug overdose, 8 minutes from now somebody else will. This is reality now people. Every 8 minutes someone's father, mother, daughter or son will lose their life to this monster.

Opiates every 8 mins

Alcohol every 6 mins

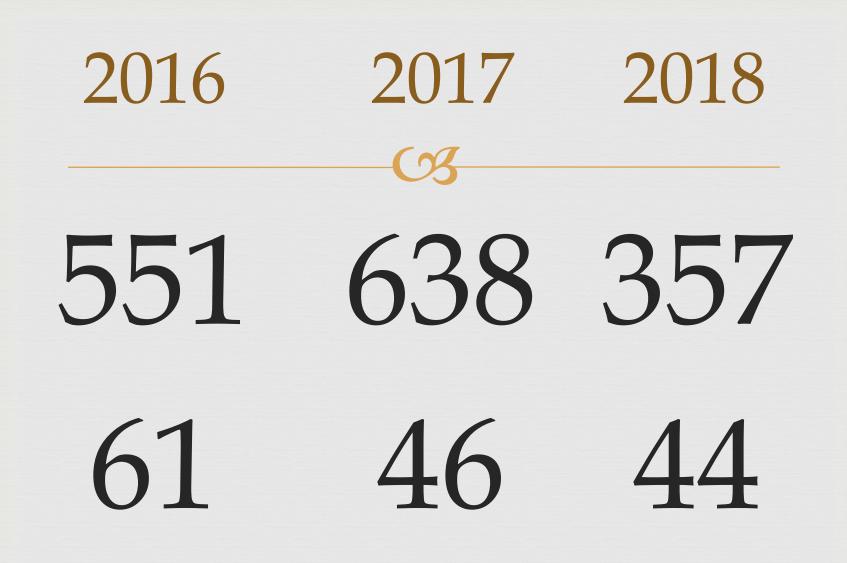
Tobacco every 1 min

OH-IO





Richland County ODs We're #16/88 counties



Agency	Overdose Totals	Overdose Death Totals
Mansfield	257	32
RCSO	66	9
Shelby	16	3
Ontario	8	0
Lexington	3	0
Bellville	6	0
Butler	1	0
TOTALS	357	44

2018 Richland County Overdoses - (January 01 - December 31)

2017 Richland County Overdoses - (January 01 - December 31)

Agency	Overdose Totals	Overdose Death Totals
Mansfield	460	23
RCSO	116	16
Shelby	40	2
Ontario	14	2
Lexington	5	2
Bellville	3	i i
TOTALS	638	46

Decrease of 44.04% for overdoses and a decrease of 4.35% for overdose deaths



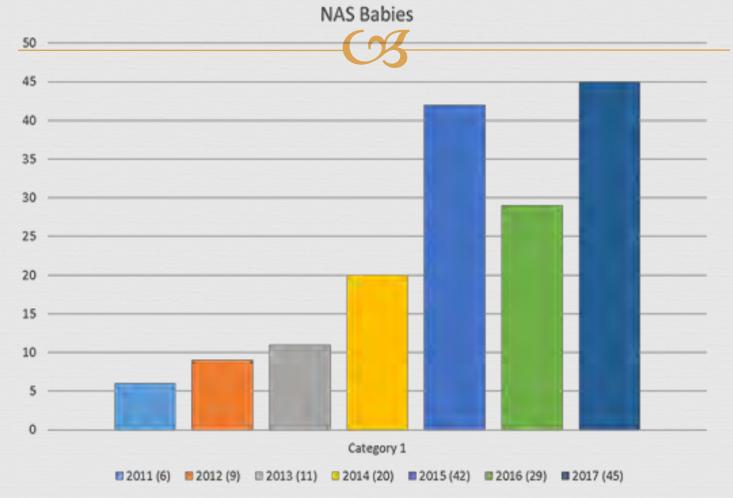
Who Doesn't this Effect?

Accidental in 2 year old
Up through 80s.
In utero?
Neonates (NAS)

Neonatal Abstinance Syndrome

2 to 3 weeks

Mansfield NAS Babies



Who Doesn't this Effect?

Families broken
Grandparents with custody/care
Total Richland County hits math If OD 1% of time 35,700 1/1000=357,000
GSWs, Robberies and Thefts – Jail / Prison

You Can't Trust Your Dealer



Heroin?

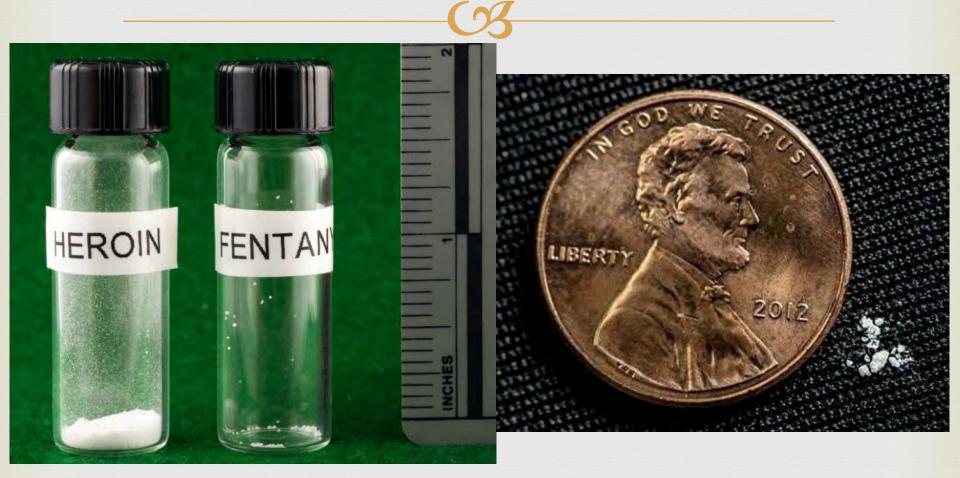
c 6% Heroin

Fentanyl (50 to 100 X) or 13 analogues - majority of cases

- **№ 1 gram =** 5 to 100 mg?
- G-Acetylmorphine (MAM)
- Synthetic marijuana / Posh (including very potent 4-cyano CUMYL-BUTINACA and 5-fluoro EDMB-PINACA), bath salts, meth, cocaine, tramadol
- **Psychostimulants: 3-Fluorophenmetrazine & Ethylaminohexanophenone**

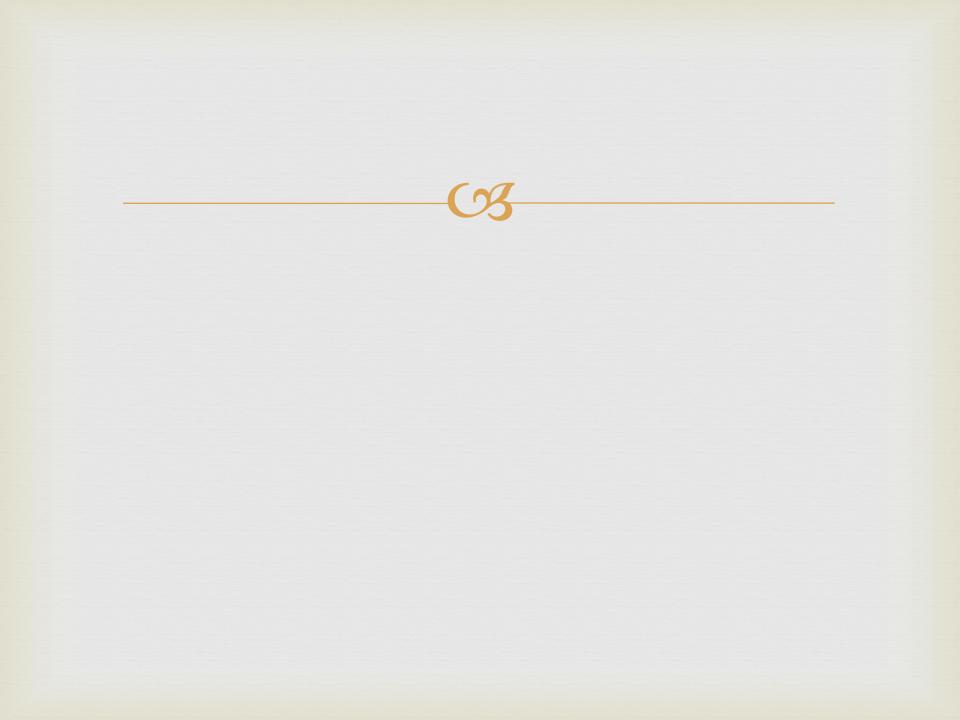
Caffeine, diphenhydramine, procaine, benzocaine, quinine, levamisole (deworming med), meat tenderizer, «assorted vegetable matter »

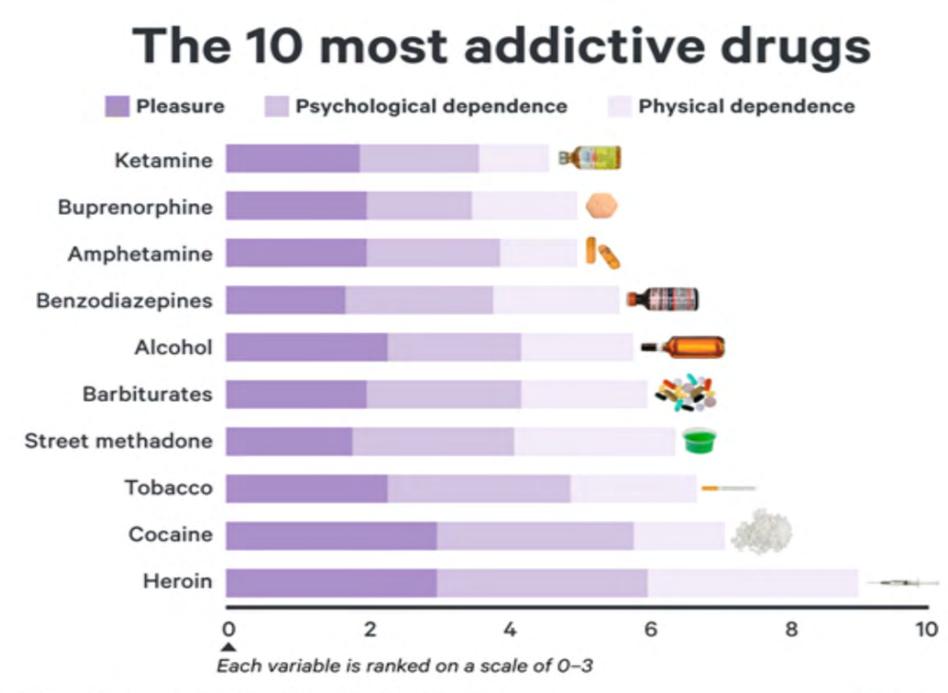
Lethal Dose



Always Something New

Well, Jane, it just goes to show ya. It's always somethin?! If it's not one thing, it's another!



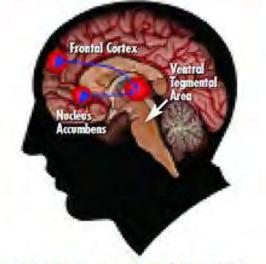




Addicted Hyperalgesia Genes?

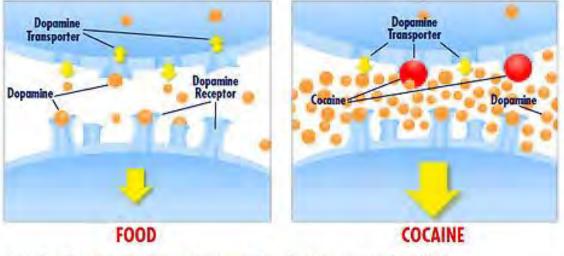
DRUGS OF ABUSE TARGET THE BRAIN'S PLEASURE CENTER

Brain reward (dopamine) pathways



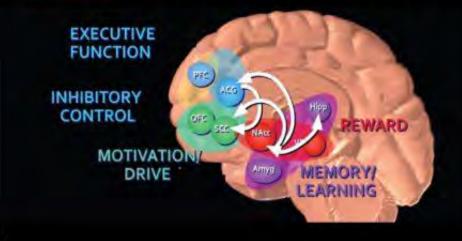
These brain circuits are important for natural rewards such as food, music, and sex.

Drugs of abuse increase dopamine

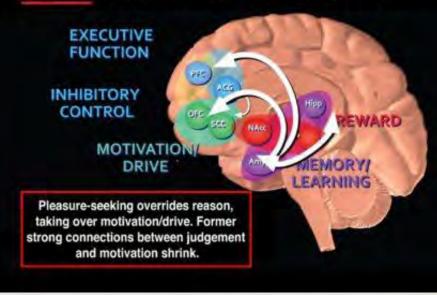


Typically, dopamine increases in response to natural rewards such as food. When cocaine is taken, dopamine increases are exaggerated, and communication is altered.

BEFORE substance use/addiction



AFTER substance use/addiction

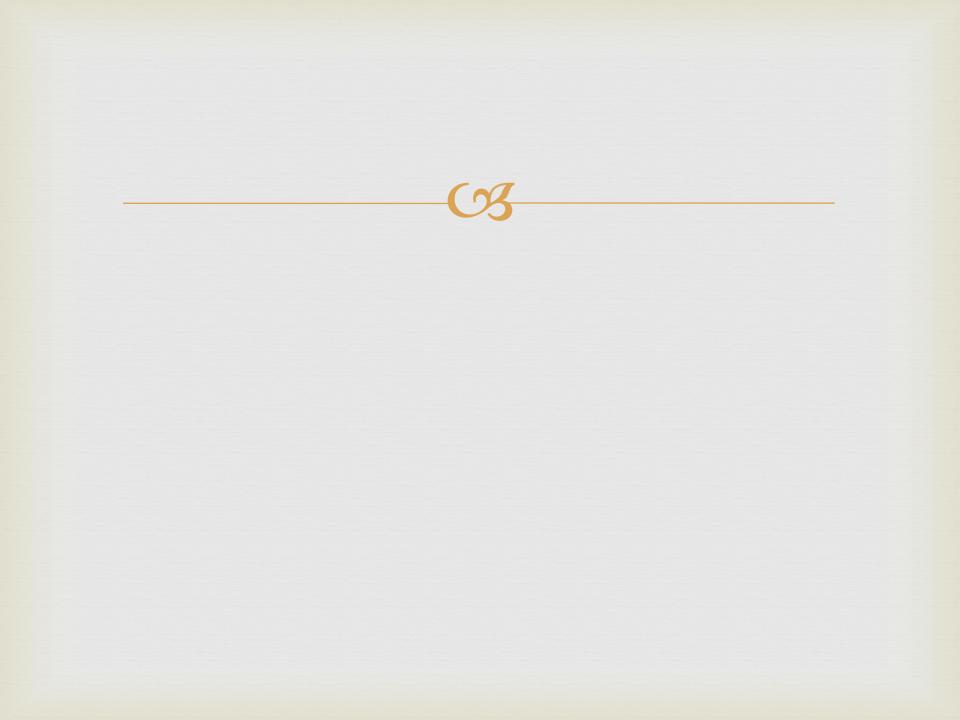


Withdrawal and Remission?

3 months

3 days

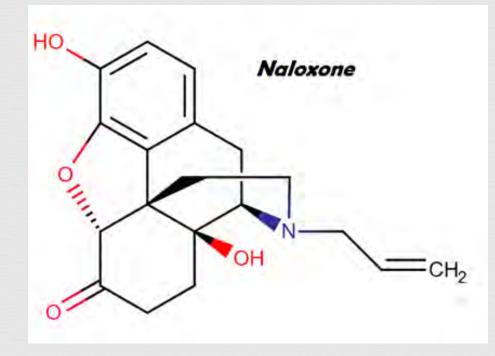
3 years



WHY?

Recreasing Overdoses Not decreasing deaths nearly as much

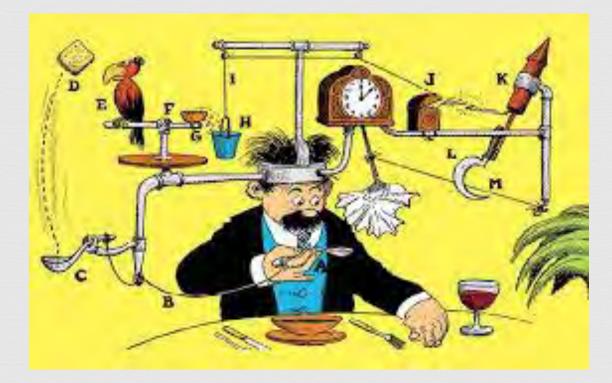
Naloxone (Narcan)



RC Doses of Narcan in 2018

> 2000 in 2017

Starts the Process of HOPE





Richland County Opiate Board

Local Help, Local Hope, Overdoses ARE Preventable.

Get Connected, Get Answers.

547 Overdoses 49 Deaths 2016 Richland Co.

Richland County Opiate Board

Opiate Response Team

Ra Twice a week

Real Not if active warrant

- CR Law Enforcement / CHW / Treatment Specialist
- Now initiated in Mansfield and Ontario Emergency Departments

252 Responses 3/1/2017 to 2/28/2019

Contact was made with 143 individuals (55%) 108 of the individuals contacted or (76%) entered treatment

Shelby had 21 responses with 12 (57.14%) resulted in contact and 9 (75%) of those contacted entered treatment
Mansfield had 223 with 120 (54%) resulted in Contact and 93 (78%) of those contacted entered treatment.
Richland County Sheriff had 16 responses with 11 (68.75%) resulted in Contact and 6 (54.55%) of those contacted entered treatment.

*treatment data is tracked through billable services, which can run 6-8 weeks delayed.

Contact was also made with

- And **35 people who had** *information left* at their **residence entered treatment**.

*treatment data is tracked through billable services, which can run 6-8 weeks delayed.

Treatment Outcomes

A 56 have reach 30 days
A 35 have reach 60 days
A 32 have reach 90 days
A 22 have reach 120 days

*treatment data is tracked through billable services, which can run 6-8 weeks delayed.

How Many RC Residents are getting Addiction Treatment?

2,832

4,627



Road to Recovery is not Smooth and Straight



That's a lot of GRACE!!

Outpatient Medically Assisted Treatment

MAT components

Supportive Meds

Acute withdrawal

Anti-emetics

Stomach cramps / spasms

Muscle cramps

Insomnia

Calculate Long Term
 Calculate Antidepressants
 Cravings - tailor for drug(s) of choice
 Cabapentin/Neurontin
 Loperamide

Address Medical Issues

№ 16/88 for active Hepatitis C

Buprenorphine

- 🛯 An Opiate

Mu Receptor Activation

- **G** Fentanyl 90%
- ☑ Hydromorphone 80%
- 𝑀 Morphine 75%
- ☑ Buprenorphine 50%

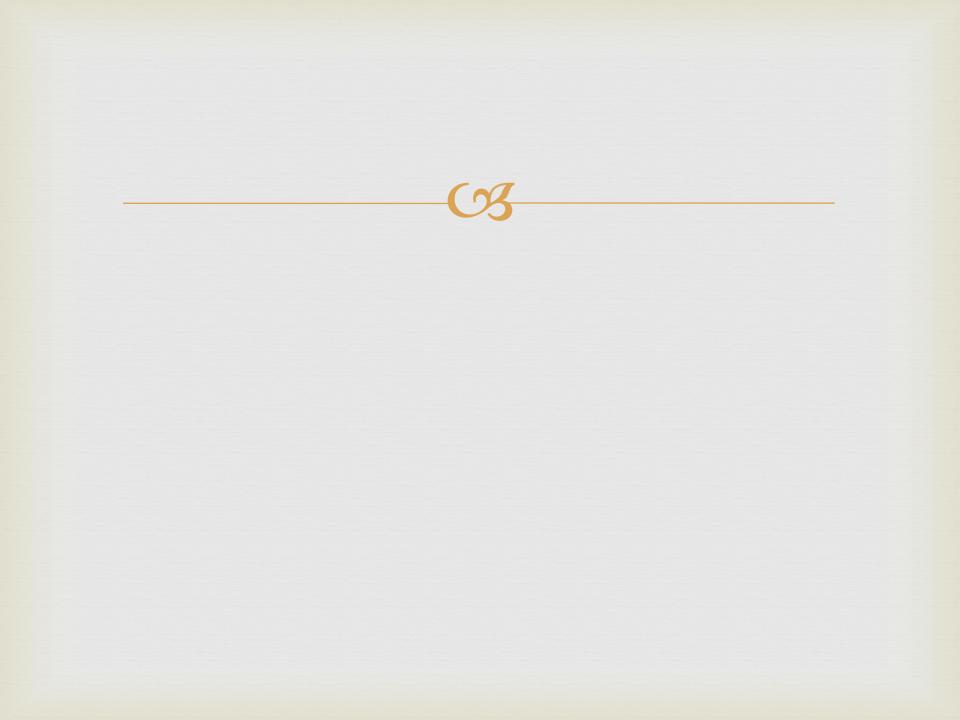
🛯 Mu Binding Strength

Maltrexone > Buprenorphine > Fentanyl > Hydromorphone > Morphine

Naltexone

Roral up to 24 hours Vivitrol (30 day IM shot)

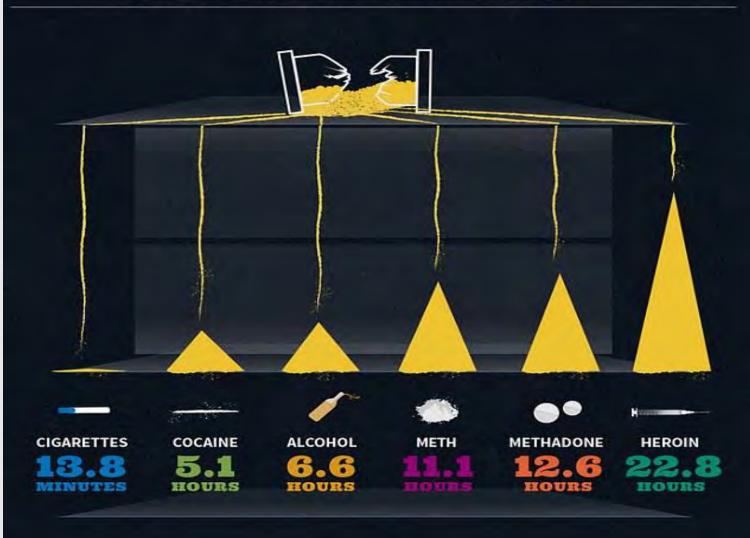
6 Months Clean 80 % Vivitrol 40% Suboxone 2% On Own



At What Age Does the Brain Usually Stop Developing?

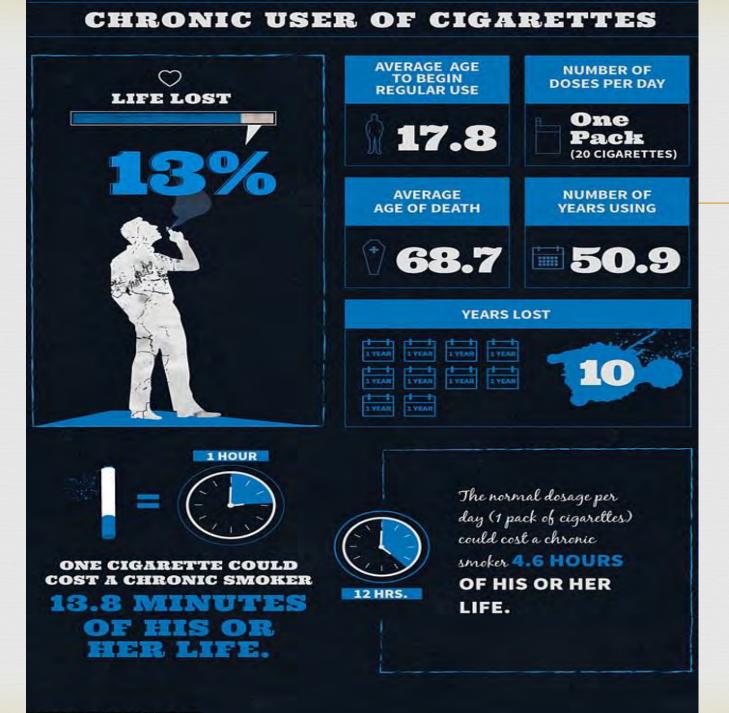


HOW MUCH TIME DOES A LIFELONG ADDICT LOSE EACH TIME THEY USE?

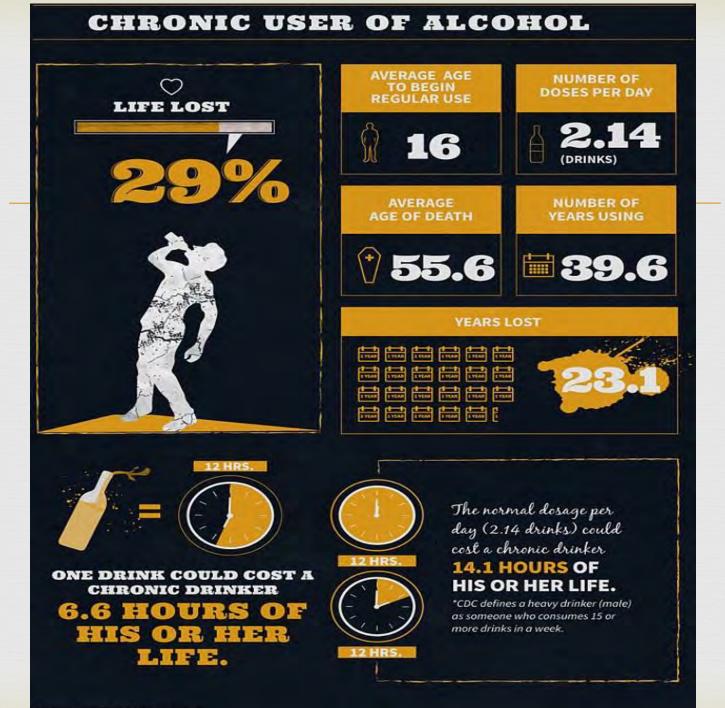




The total time lost for each individual use is heavily dependent on how many times the average daily dose is segmented. For example, the daily dose of cocaine is segmented by 6.6 (lines), while the daily dose of alcohol is segmented by 2.14 (drinks).

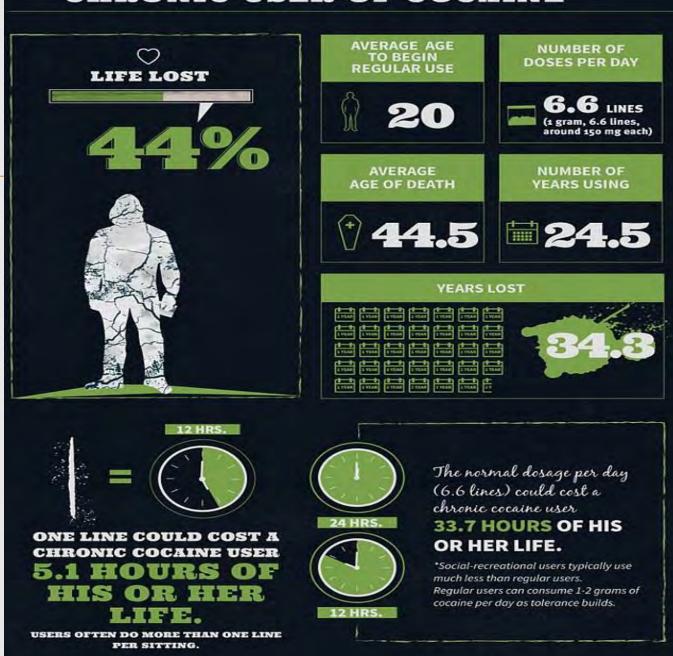


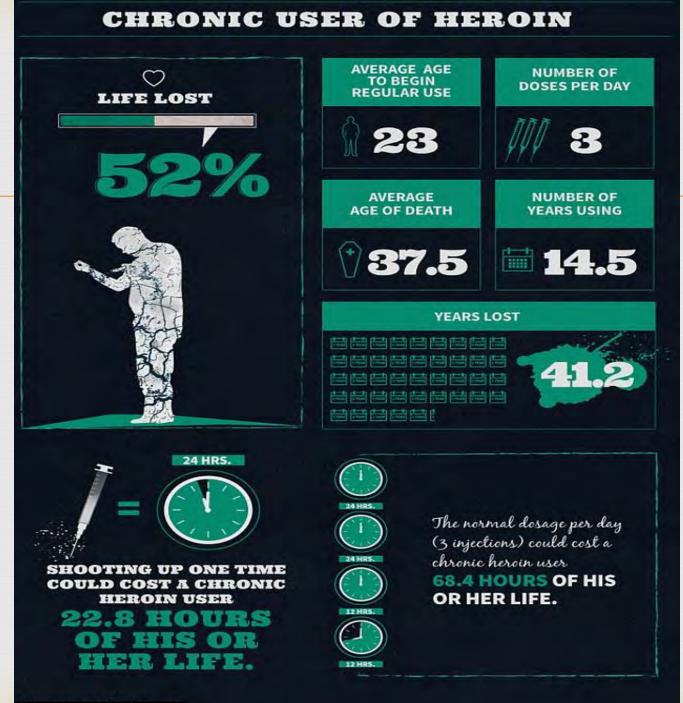
© treatment/addiction com



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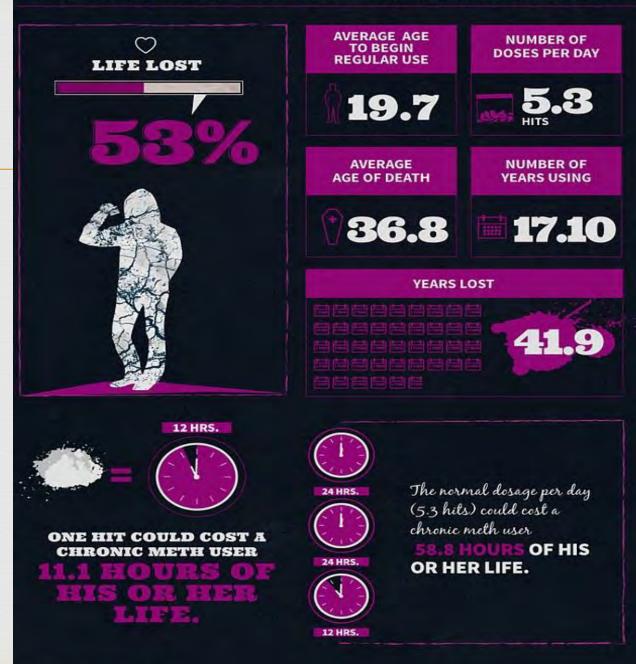
CHRONIC USER OF COCAINE





© treatment4addiction.com

CHRONIC USER OF METHAMPHETAMINE



© treatment4addiction.com

Pilots 24 hours after smoking one joint

- Real Difficulty in aligning with and landing on runway
- Race Increased vertical & lateral deviation from required flight path
- A Lateral deviation on approach to land twice premarijuana test
- Significant increase in distance from center of runway on touchdown
- One pilot landed off the runway entirely
- Real Pilots not aware of any impairment

Yesavage JA, Leirer VO, Denari M, Hollister LE. Carry-over effects of marihuana intoxication on aircraft pilot performance: a preliminary report. Am J Psychiatry 1985; 142:1325-9.

How to Lose Video Games and Increase Chance of Heart Attack

Half (1960s) vs Full Marijuana Cigarette / Vape

Reart Rate

Smoked - up 10/20 Vaped - up 20/25

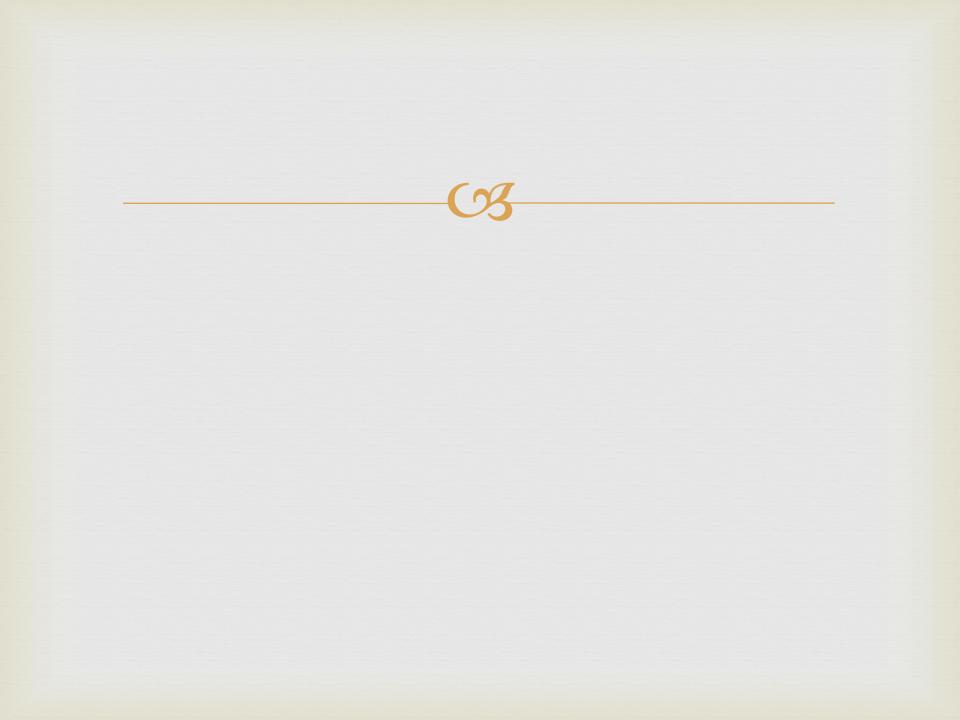
Vapea up 20

Reaction Time

Smoked Increased 150% / 170% Vaped Increased 350% / 500%

CR Effects lasted 6 to 8 hours while blood levels 3 to 4 hrs

Spindle TR, Cone EJ, Schlienz NJ, et al. Acute Effects of Smoked and Vaporized Cannabis in Healthy Adults Who Infrequently Use CannabisA Crossover Trial. JAMA Netw Open. 2018;1(7):e184841. doi:10.1001/jamanetworkopen.2018.4841



Substance Abuse Disorder 6 times more likely to commit suicide



Teens using THC 3-6 times increased risk of **Schizophrenia** as adult



Richland County Suicides

CR2017 – 22 confirmed deaths from suicide (17 in 2016)
CR2 by overdose
CRAges 19 to 83
CR2 females

First Responders

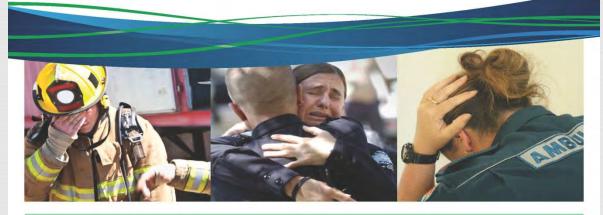
SINCE 2017

MORE FIRST RESPONDERS HAVE DIED FROM SUICIDE THAN IN THE LINE OF DUTY

First Responder EAP







THERE /S HELP TO ADDRESS MENTAL HEALTH CONCERNS

The nature of emergency service work exposes first responders to increased levels of trauma, in addition to everyday personal and occupational stressors. Post-traumatic stress disorder is common in people with careers where they are continually exposed to traumatic events including police officers, emergency personnel, 911 dispatchers, and firefighters.

Our confidential counseling services, provided by a peer with over 25 years of experience in public safety, are designed for public safety providers. Counseling is held in the Rehab building to help assure anonymity.

Contact Catalyst at 419-522-4357 (HELP)

When calling be sure to let them know that you are a public safety provider and they will connect you with Angie Hoptry

Providers may be referred by Dr. Bocka as well.

Sessions are by appointment only.

How do I get an Addict to want to change



Success Tips

Don't give up – please help support me (GRACE)
 Demand honesty. Don't be afraid to call me out on relapses and discuss triggers and temptations and develop back up plans to back up plans

∞ Don't give me cash

Keep me busy (Think on these things)

- CR Don't let me be alone
- Relp me get, set, and achieve **goals**
- **Get rid** of **old** drugs, paraphernalia, contacts
- Relp me get in with groups and get a sponsor
- **Exercise** (get those natural endorphins going-walk?)

http://OpiateAddictionRichlandCounty.com



I Need Help.

Someone I Know Needs Help.

My Employee Needs Help.

http://OpiateAddictionRichlandCounty.com

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← → Ů ŵ A https://opiateaddictionrichlandcounty.com/



Three Ways You Can Make A Difference Talk to Your Kids

1

It's important to talk to your kids about prescription safety and to safeguard your medicines.

Find Alternatives for Pain

Discuss alternate ways to manage your pain that don't involve prescription opioids with your doctor.

Properly Dispose of Medications

Disposing of unused, unwanted medications leads to the reduction of misuse and availability of prescription drugs.

Request A FREE Recovery Resource Packet





http://OpiateAddictionRichlandCounty.com





In crisis? Call <u>419-522-4357</u>

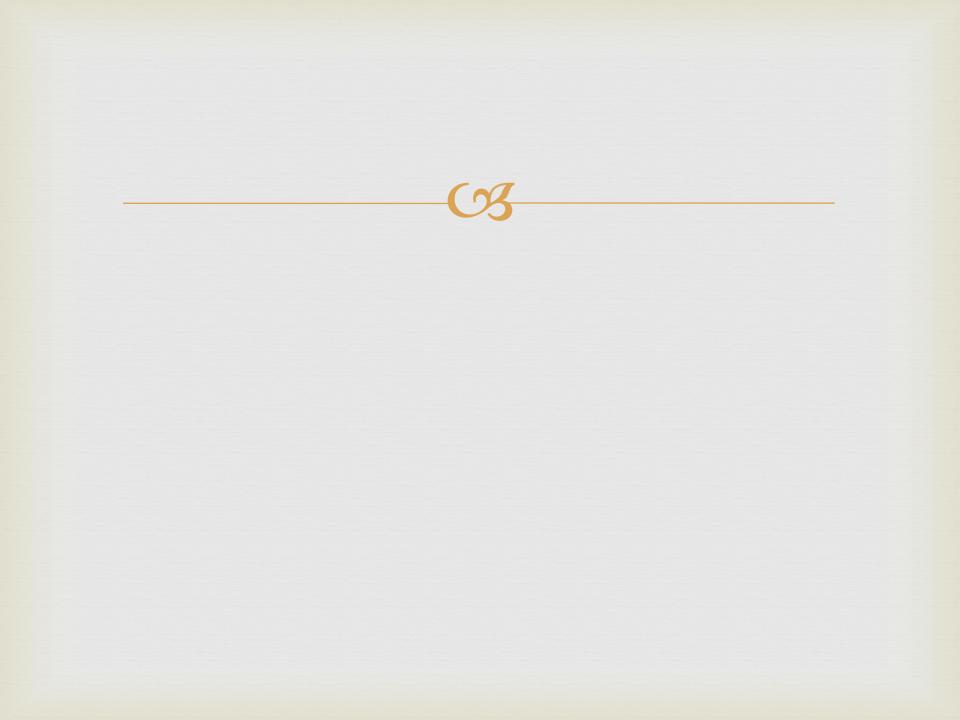


So What Can We Do?

- ন Get Speakers/facts
- 🛯 Narcan Training

Narcan Training: A Survivor & Rescuer's Approach Tuesday June 25th 2019 Main Library 5pm to 6pm

- Real Encourage foster care training
- Relp grandparents and others suddenly with kids
- Responders, EDs, chaplains)
- Relp support **group** meetings (especially transport / time off)
- CACY and Mid Ohio Youth **Mentoring kids** hang out with now greatly effects where they will be in 5 years
- May need to provide **safe home** (?from other areas)
- R Provide FAMILY



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