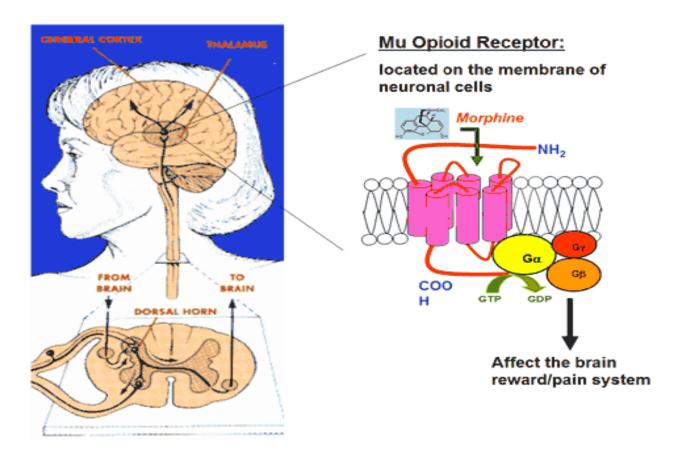
MEDICATION ASSISTED TREATMENT FOR OPIOID ADDICTION

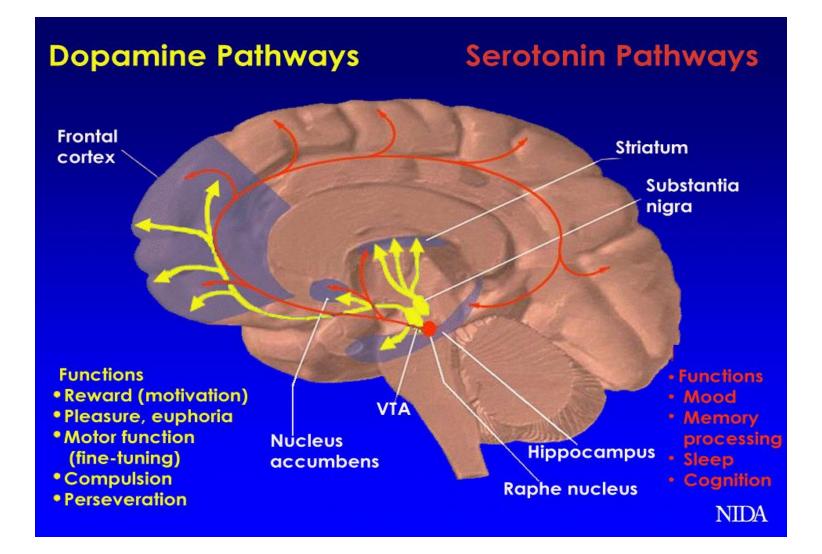
Mark Fisher Program Administrator State Opioid Treatment Administrator Kentucky Division of Behavioral Health

OBJECTIVES

- Learn about types of opioids and associated withdrawal symptoms
- Learn what medications are available to treat opioid addiction
- Understand the pros and cons associated with each medication
- Understand the risks and benefits of utilizing these medications during pregnancy

Addiction – "A brain disease, not a social dysfunction". Green light, Red light responses.





Short Definition of Addiction

- Addiction is a primary, chronic disease of brain reward, motivation, memory and related circuitry. Dysfunction in these circuits leads to characteristic biological, psychological, social and spiritual manifestations. This is characteristic biological, social and spiritual manifestations. This is reflected in an individual pathologically pursuing reward and/or relief by substance use and other behaviors.
- Addiction is characterized by inability to consistently abstain, impairment in behavioral control, craving, diminished recognition of significant problems with one's behaviors and interpersonal relationships. Without treatment or engagement in recovery activities, addiction is progressive and can result in disability or premature death.

Source: American Society of Addiction Medicine (ASAM)

OPIOID ADDICTION AND TREATMENT

Opioids-effects and withdrawals

Methadone

Buprenorphine-Suboxone and Subutex

Naltrexone

OPIOIDS

Naturally occurring from opium (opiate)-

≻morphine, codeine, and thebaine

Semi-synthetics (opiate)-

- ≻Morphine-heroin, MS Contin
- Codeine-Vicodin, Lortab, Oxycodone, Percoset, Tylox, Oxycontin
- Thebaine-Not used therapeutically, but converted into Naloxone, Naltrexone, Buprenorphine
- &Fully-synthetic (opioid)-

Methadone, Fentanyl, Darvon

IMPACT OF OPIOIDS ON PHYSICAL HEALTH

- Drowsiness
- Constipation
- Depression of CNS
- Physical dependence and addiction
- Infections and collapsed veins

PHYSICAL IMPACT CONT.

Liver or kidney disease
Damage to vital organs
Hyperalgesia
HIV and Hepatitis C
Fatal overdose

IMPACT OF OPIOID ADDICTION ON EMOTIONAL, SOCIAL, AND FAMILY

Decrease/cease self care and ADL's
Increase in criminal behavior
Loss of job, school difficulties
Depression, anxiety
Dishonesty, lack of trust

EMOTIONAL/SOCIAL IMPACT CONT.

- Less quality time with family
- Lose/harm relationships
- Compromise personal values
- Engage in high risk behaviors
- Financial burden to community

OPIOID WITHDRAWAL SYMPTOMS

- Abdominal pain
- Agitation
- *Diarrhea
- Dilated pupils
- Goose flesh
- Nausea
- "The leaks"

WITHDRAWAL SYMPTOMS CONT.

- Involuntary leg movements
- Restlessness
- Runny nose
- Sweating
- Vomiting
- Bone and joint pain

OPIOID WITHDRAWAL

- Peak between 48 and 72 hours after last dose.
- Feels like terrible flu.
- Typically subsides after about 1-2 weeks.
- Can show persistent withdrawal symptoms for months.
- Less dangerous than alcohol, but for those in poor health can be fatal.

METHADONE-MYTH V. FACT

"Fíndíng Normal"

METHADONE

Developed on the battlefield in WWII Germany for pain relief.

Schedule II narcotic

Long acting opioid analgesic (24-36 hours)

Full mu opioid agonist-binds and activates creating a "Blocking Effect".

METHADONE

Long half-life (12-59 hours)

Administered orally- always in liquid form

National average dose is 80 milligrams

METHADONE TREATMENT

Medication is only one component (wrap around services)

Detoxification v. Maintenance (MMT)

Opiate Treatment Programs
Overview of average OTP
Federal and State regulations
Kentucky's programs

Kentucky Opioid Treatment Programs

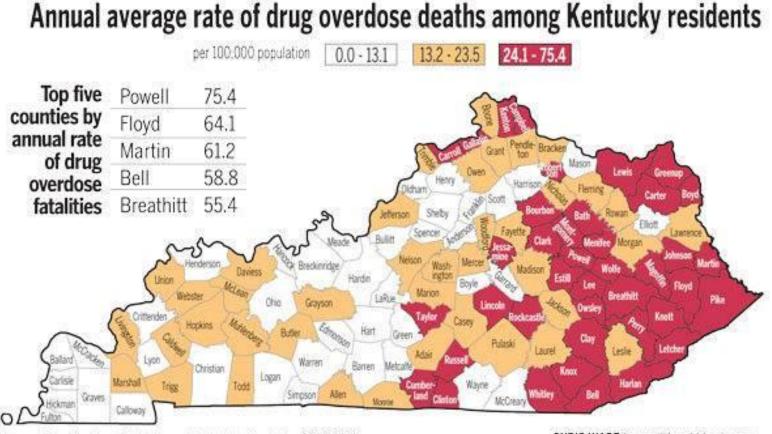
Kentucky Opioid Treatment Programs



Bus: (859) 977-6080
Bus: (502) 894-0234
Bus: (606) 526-9348
Bus: (270) 234-8180
Bus: (859) 276-0533
Bus: (502) 574-6414
Bus: (859) 360-0250
Bus: (270) 443-0096
Bus: (606) 789-6966
Bus: (606) 487-1646
Bus: (606) 437-0047
Bus: (606) 393-4632
Bus: (270) 887-0130
Bus: (502) 352-2111
Bus: (502) 868-0664
Bus: (270) 782-2100
Bus: (502) 732-3070
Bus: (606) 564-0303
Bus: (270) 685-5029
Bus: (270)-253-3078

* Indicates a Medication Station

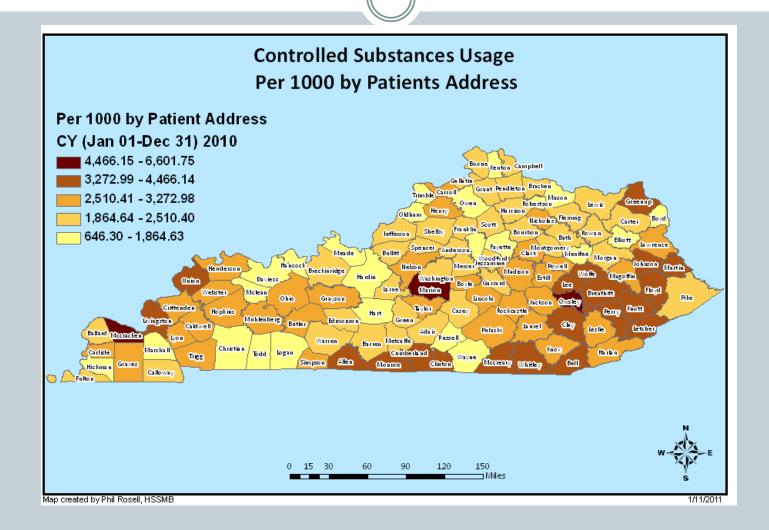
Drug overdose rate by county

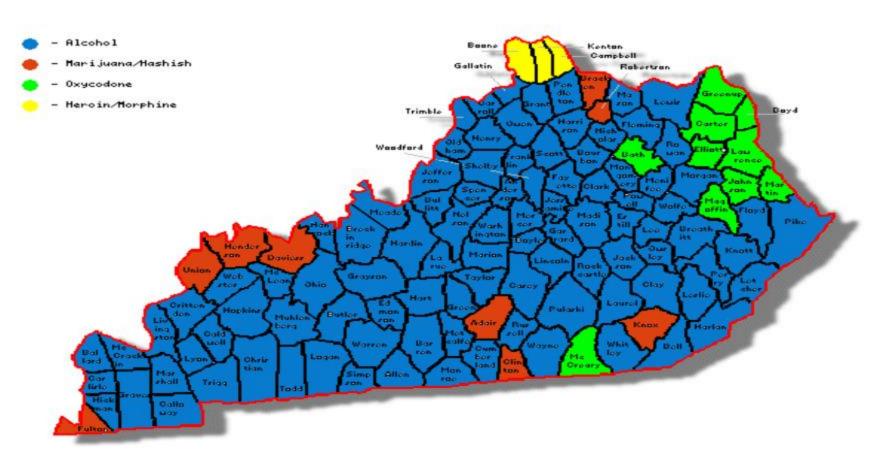


Source: Drug Overdose Morbidity and Mortality in Kentucky, 2000-2010

CHRIS WARE | cware@herald-leader.com

Kentucky Counties in Crisis





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METHADONE BENEFITS

Right dose does not cause euphoric or tranquilizing effects.* This does not apply to opiate naïve individuals.

Reduces/blocks effects of other opiates.

Tolerance is slow to develop.

METHADONE BENEFITS

Relieves cravings.

Allows the individual to feel "normal".

Improved employment status and family relationships.

METHADONE BENEFITS

Decrease in criminal activities.

Decrease in high risk behaviors such as IVDU
 = decrease in HIV and Hep. C.

Improved health and health care.

METHADONE LIMITATIONS

- Increased risk when combined with other drugs. (Benzodiazapines)
- Can only be dispensed/administered through an OTP.
- Private can be expensive.
- Heavily regulated, lots of rules, can be time consuming.

METHADONE LIMITATIONS

- Abuse liability and diversion
 - Use by pain management programsOpiate naïve users
- Associated health complications
 - torsade de pointes-QT prolongation, arrhythmia - ventricular tycachardia

BUPRENORPHINE (SUBOXONE)

"Overcoming Dependence"

BUPRENORPHINE

Drug Addiction Treatment Act of 2000

In 2002, two forms were FDA approved-Subutex and Suboxone, both made by Reckitt-Benckiser.

Schedule III narcotic

Opioid analgesic with effects up to 6 hours.

BUPRENORPHINE

Partial mu opioid agonist (ceiling effect)

Long half-life (24-60 hours)

Administered as sublingual tablet

Subutex- 2 mg or 8 mg buprenorphine

Suboxone- 2 mg bup + .5 mg naloxone
8 mg bup + 2 mg naloxone

8 mg bup + 2 mg naloxone

SUBUTEX

Contains Buprenorphine only. Minimally used in U.S. today except with pregnant women.

Higher rate of diversion, can be injected.

SUBOXONE

- Naloxone added as means to decrease diversion.
- Poor bioavailability sublingually, but if dissolved and injected, will precipitate withdrawal.
- High diversion potential with lack of regulatory oversight.

BUPRENORPHINE TREATMENT

Medication is only one component

Short-term v. long-term

OTP v. OBOT (Office Based)

- Overview
- Federal and State guidelines
- Kentucky's programs

BUPRENORPHINE BENEFITS

- Virtually no euphoric or tranquilizing effects.
- Blocks effects of other opiates.
- Relieves cravings to use other opiates.
- Allows "normal" function".
- Lower abuse liability and diversion potential than Methadone.

BUPRENORPHINE BENEFITS

- Increased anonymity and less intrusive, vs. attending a MAT clinic daily.
- Increased treatment options/access to treatment.
- Decrease in high-risk behaviors.
- Good "step down" option for those tapering from Methadone.

BUPRENORPHINE LIMITATIONS

Expensive.

Cannot take if opiates still in your system.
Counseling may not be available or affordable in the same area as doctor.
Doctors limited to 30 patients the first year with a maximum of 100.

BUPRENORPHINE LIMITATIONS

No regulations for clinics, only "practice guidelines".

 Potential for overdose of other opiates due to ceiling effect.

Abuse and diversion potential still exists.

NALTREXONE

Long half-life (up to 72 hours)

 Opioid antagonist-binds, but blocks instead of activates

Is NOT an opiate

NALTREXONE

Used primarily to treat alcohol dependence due to blocking neurotransmitters believed to be involved with alcohol dependence.

Oral- ReVia
Injectable- Vivitrol
Implant- not FDA approved

NALTREXONE TREATMENT

Medication is only one component.
Average length of treatment is 3 months.
Works best with highly motivated patients.

NALTREXONE BENEFITS

- Any physician can prescribe in any setting.
- Relatively inexpensive when compared to Methadone or Buprenorphine.
- Non-addictive, does not produce dependence, and does not build tolerance.

BENEFITS CONT.

- More acceptance in abstinence-based programs.
- Less stigma than Methadone or Buprenorphine.
- In KY Medicaid covers, but only oral is 1sttier; injectable is a 3rd-tier.

NALTREXONE LIMITATIONS

Does not help with cravings.

- Poor compliance with oral version.
- Cannot have any opiates in system when starting treatment or will precipitate withdrawal.

LIMITATIONS CONT.

Injection site reactions

Risk of overdose in attempt to break through blockade.

Cannot be used with pregnant clients.

MAT AND PREGNANCY

- No FDA approved medications.
- *"Cold turkey" detox may trigger miscarriage, pre-term labor.
- Methadone is recommended and preferred mode of treatment. (Gold Standard)
- Subutex shows to be promising.

MAT AND PREGNANCY CONT.

 Individualized approach, informed choice.
 Decreases/ceases cycles of intoxication and withdrawal

Decrease in high risk behaviors

MAT AND PREGNANCY CONT.

- Prenatal care
- Additional services-parenting, nutrition
- Opportunity to address other factorsmental health, social supports, basic needs

KORTOS – Ky Opiate Replacement Treatment Outcome Study – FY 2012

Abstinence rates increased dramatically (6 month review)

- Rx opioid use decreased 91% from admission
- Non-Rx methadone decreased 82%
- Heroin use decreased 100%
- Alcohol intoxication down 67%
- Arrests down 65%
- Decrease in economic hardships down 34%
- Improved recovery supports up 40%

Three things to remember.....

- 900 % increase in people seeking treatment in the last decade.
- 25,428 Kentuckians were admitted to drug and alcohol treatment programs
- 90+ Kentuckians <u>die</u> EACH MONTH from drug overdoses.
- Prescription drug overdoses is #1 cause of accidental death- has overtaken MVA's

2013 Statistics

- Heroin arrests have increased 2,334 percent from 32 in 2008 to 779 in 2012 in Louisville – LMPD
- Seizures of heroin are up 6,688 percent
- LMPD blames 80 percent of burglaries and thefts on heroin addicts
- Jadac (Jefferson Alcohol Drug Abuse Center)- 90 percent of its calls are heroin related
- Kentucky State Police -heroin submissions;
 in 2010 were 451, in 2012 they were 1074

KEY POINTS TO REMEMBER

No "perfect" medication that is one size fits all.

- All 3 medications work significantly better when utilized in combination with counseling, drug screens, etc.
- MAT may be appropriate for pregnant women but must be closely monitored and have informed consent.
- Individuals receiving MAT are in recovery!

CONTACT INFORMATION

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