

UNTREATED OPIOID USE DISORDER IN PREGNANCY

Health Outcomes

Opioid use disorder during pregnancy has been linked to:



Preterm
Birth



Low
Birthweight



Breathing
Problems



Feeding
Problems



Maternal
Mortality

Obstetric
Complications:
The Essentials
and More

AllinaHealth

[MMWR-Opioids-Use-Disorder-Pregnancy-Infographic-h.pdf \(cdc.gov\)](#)

12

12

FENTANYL: A NEW ERA

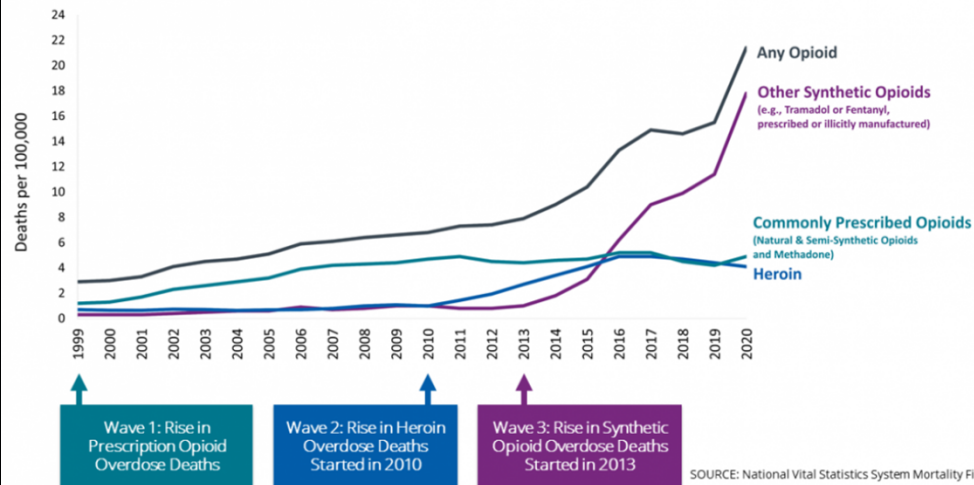
AllinaHealth

13

13

THE FENTANYL ERA

Three Waves of Opioid Overdose Deaths

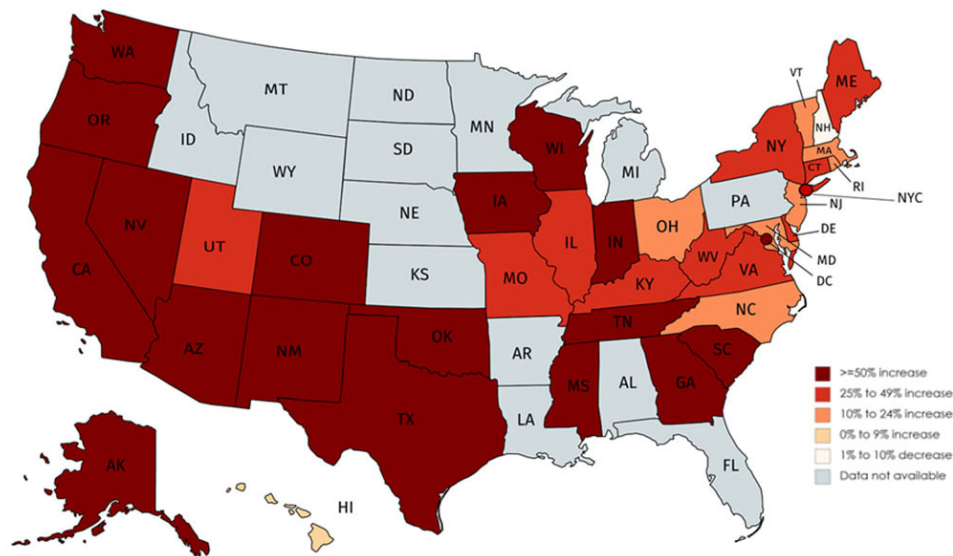


Obstetric
Complications:
The Essentials
and More

AllinaHealth

14

% Change in Fatal Overdoses Involving Synthetic Opioids 2019-2020



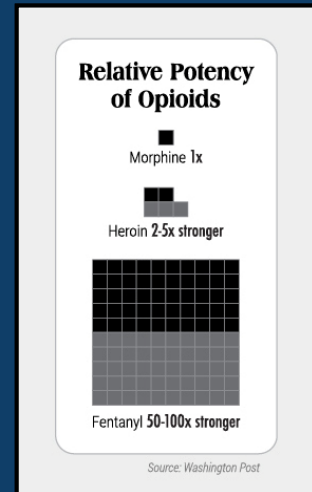
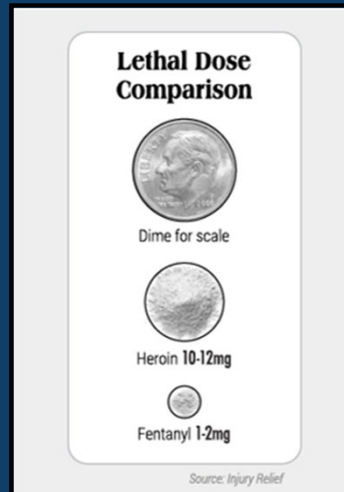
15

WHY FENTANYL?

- Cheap and relatively easy to produce.
- Highly lipophilic
- Short onset and duration of action.
- Behaves like a long-acting opioid with chronic use.
- High tolerance with repeated use and severe withdrawal symptoms.

Obstetric
Complications:
The Essentials
and More

AllinaHealth



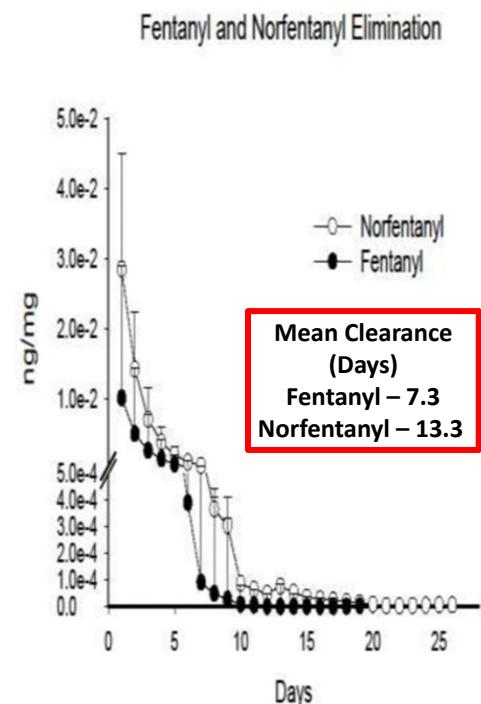
16

IMPORTANCE OF FENTANYL HIGH LIPOPHILICITY

- "Fast In, Fast Out" Drug
- Rapidly crosses the blood-brain barrier, in both directions.
 - Acts quickly.
 - Shorter duration of action.
- Sequestered in lipid cells with gradual release from tissues.
 - Prolonged elimination half-life.
 - **Longer window for potential precipitated withdrawal!**

AllinaHealth

Obstetric Complications:
The Essentials and More



17

A CRITICAL CASE

Allina Health

18


18



- 24yo G3P0111 presented to ED with difficulty breathing, subjective fever, and flank pain.
 - Appears gravid, but unsure of last menstrual period.
 - No prenatal care.
 - Unstable housing.
- EMR reviewed as patient in respiratory distress and unable to provide history.
 - Past Medical History:
 - Intravenous Drug Use – Fentanyl, Meth
 - Hepatitis C
 - **Infectious Endocarditis – MSSA**
 - ~1 year ago, admitted x 6 weeks for IV antibiotics; lost to follow-up at discharge.

Allina Health

Obstetric Complications:
The Essentials and More

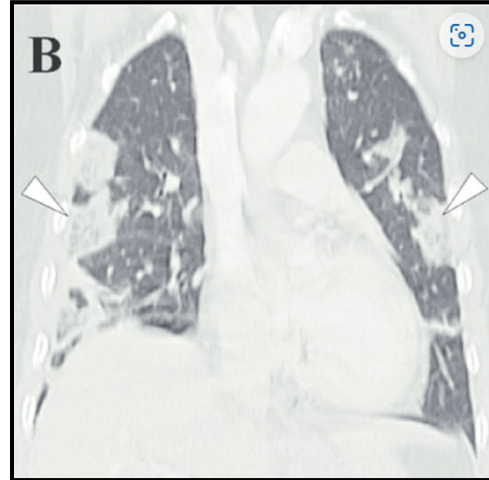


19

19

CLINICAL COURSE

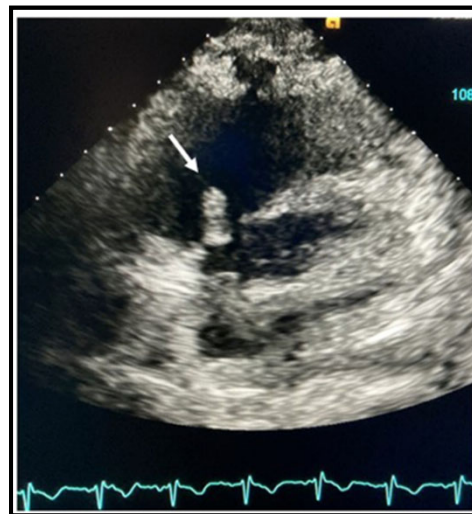
- Diagnoses:
 - Septic Emboli
 - Pyelonephritis
 - MSSA Bacteremia
 - Thrombocytopenia
 - ~28 weeks gestation based on US
- Admitted to ICU with respiratory failure and was intubated.
- Betamethasone given for fetal lung maturation.



20

TRANSESOPHAGEAL ECHO

- Severe TV Regurgitation
- Large TV Vegetations (2 x 1 cm)
- Flail TV Leaflets
- Severe Valve Malcoaptation



21