# Opioid Prescribing Guidelines Adherence Initiative

COLLEGE OF NURSING

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# Nature & Scope

- **Introduction:** Adults < 50 are more likely to die from a fatal opioid overdose than a car accident; leading cause of morbidity & mortality in adults < 50 years since 2017
- in overdose rates; 22% decline noted in 2018; 5% increase in 2019
- 2018 (157) increase in 2019 (227) fatal overdoses in Lucas County despite National trends
- Problem Identification: 890 more people suffer from unhealthy use and misuse for each fatal overdose; let's

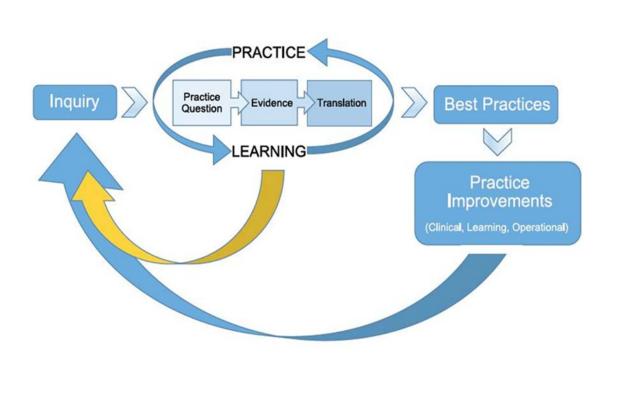
# **Project Objectives**

Establish an EBP approach to monitoring adults ages 18-64 on opioid therapy utilizing S-Bi-Rt

#### PICO-T Question

In a population of adults ages 18 to 64 currently on opioid therapy, in an ambulatory trauma orthopedic clinic of a targeted Level I Trauma Center, does provider education on current standardized opioid monitoring guidelines result in the following

- 1) improve provider **knowledge**, **comfort**, **and confidence** with opioid monitoring after four weeks education
- 2) improve the use of standardized monitoring practices, and
- 3) improve the use of risk mitigation strategies for eight weeks after the initial four weeks of education intervention?



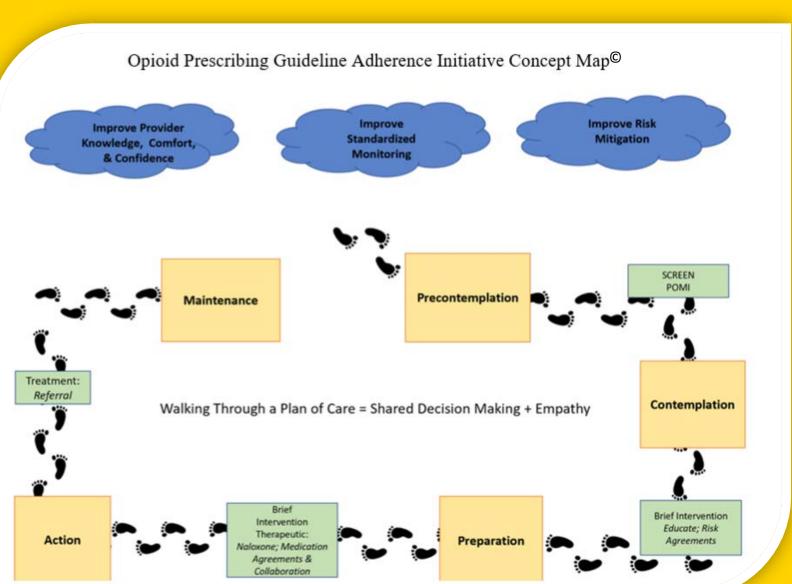
John Hopkins Evidence-Based Practice Model

# Synthesis & Analysis of Literature

**Evidence Synthesis** Number of Overall **Level of Evidence** Evidence Rating Sources Level : N/A N/A Systematic Reviews RCT, RCT, experimental Supports screening for Quasi-experimental studies, Systematic opioid misuse as beneficial. Review of combination studies RCT/quasiexperimental Level 3 Supports among orthopedic Non-experimental study, Systematic patients to monitor for Review of nonexperimental study, overdose risks and unhealthy medication use. qualitative studies Supports adherence to opioid prescribing guidelines Clinical Practice Guidelines, Consensus and early education statements strategies improve care and reduce risks with opioid Level 5 Supports screening and brief intervention (S-Bi-Rt) as Opinions of respected authors, expert Good to primary prevention for opinion, case reports, & literature reviews unhealthy medication use and overdose

Dearholt, S. & Dang, D. 2017. John Hopkins of Nursing Evidenced-Based Practice Model & Guidelines.

✓ Evidence Supports a Need for a Practice Change



front line therapy when starting treatment for

Stepwise Approach to Opioid Prescribing Guidelines

12 articles +

Project Concept Map © copyright Stechschulte, A. 2020

**Evidence-Based Solution**: implement opioid prescribing guidelines

#### References

American Academy of Orthopaedic Surgeons (AAOS). (2015). Opioid Use, Misuse, and Abuse in Orthopaedic Practice: Information Statement

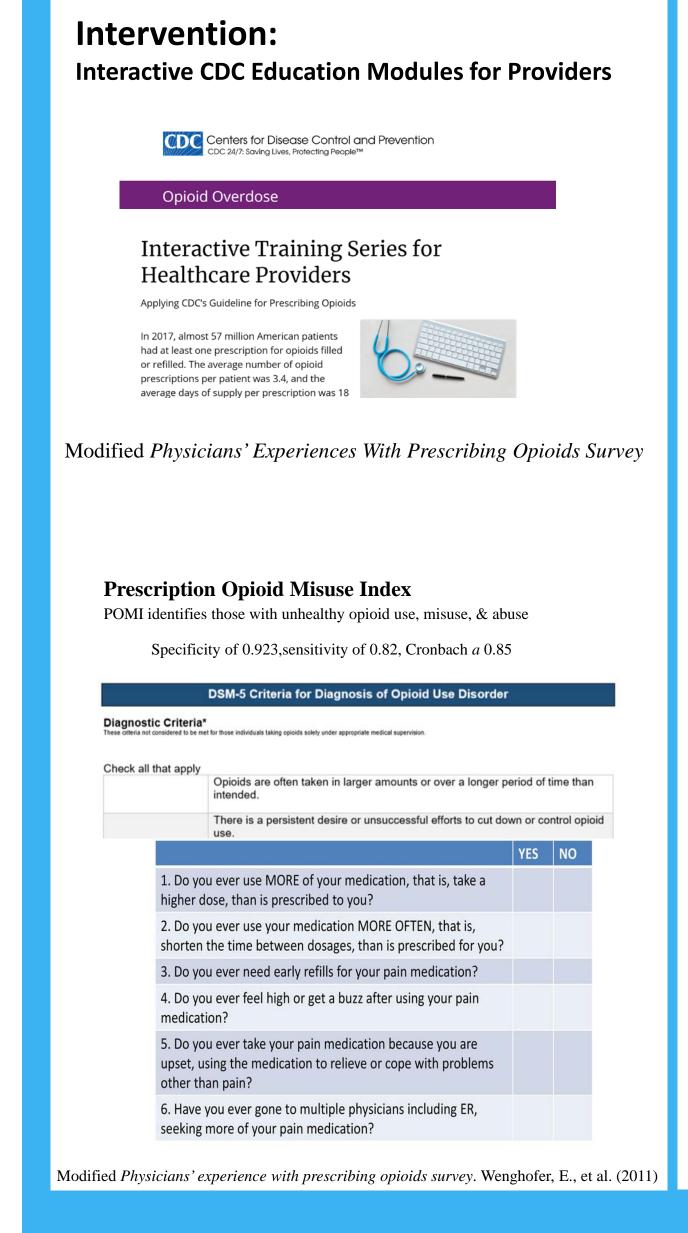
Centers for Disease Control and Prevention. (2016). CDC guidelines for prescribing opioids for chronic pain

Lucas County Children Services. (2019). Opiate epidemic continues to create a crisis for Lucas County Children Services. Lucas County Trauma Coalition

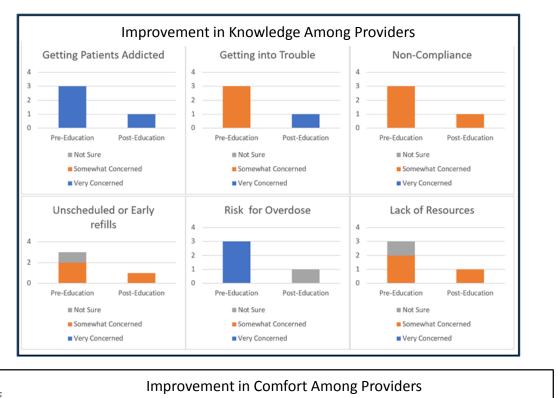
National Institute on Drug Abuse (NIDA). (2019). Ohio opioid summary: Opioid-related deaths

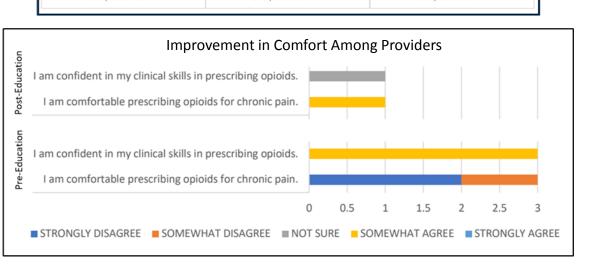
United States Preventative Services Task Force. (2019). USPSTF: Screen adults for illicit drug use.

# **Evaluation Criteria**



### **Methods:**





#### **POMI Screened** 34/46 = 73.91%, p-value 0.8648

### **POMI Scores at risk for Unhealthy Use Score 0** = 30/34 = 88% with normal use

Score 1-2 = 3/34 = 8% with unhealthy use (misuse) Score  $\geq$ 3 = 1/34 = 3% with possible Opioid Use Disorder

#### At risk for Overdose

**Score 0** = 20% at risk for overdose **Score 1-2** = 67% at risk at risk for overdose Score >3 = 0% at risk at risk for overdose

Outcomes

- Outcome 1: Knowledge of factors contributing to adverse events
- Comfort with monitoring therapy,

Outcome 2: at least 75%

POMI screen use

 Confidence with opioid management. Provider knowledge & comfort did improve with education, however provider confidence did not improve but had changed.

#### **Significance:** 70,237 people died from fatal overdose in **America** in 2017: 4.1% decline in rates from 2017-2019 as access to naloxone doubled

- 4,293 fatal overdoses in 2017 in Ohio; ranking Ohio 2<sup>nd</sup>
- find them!

Documentation of state PDMP access day of visit Provider adherence to use of standardized

Documentation of opioid education

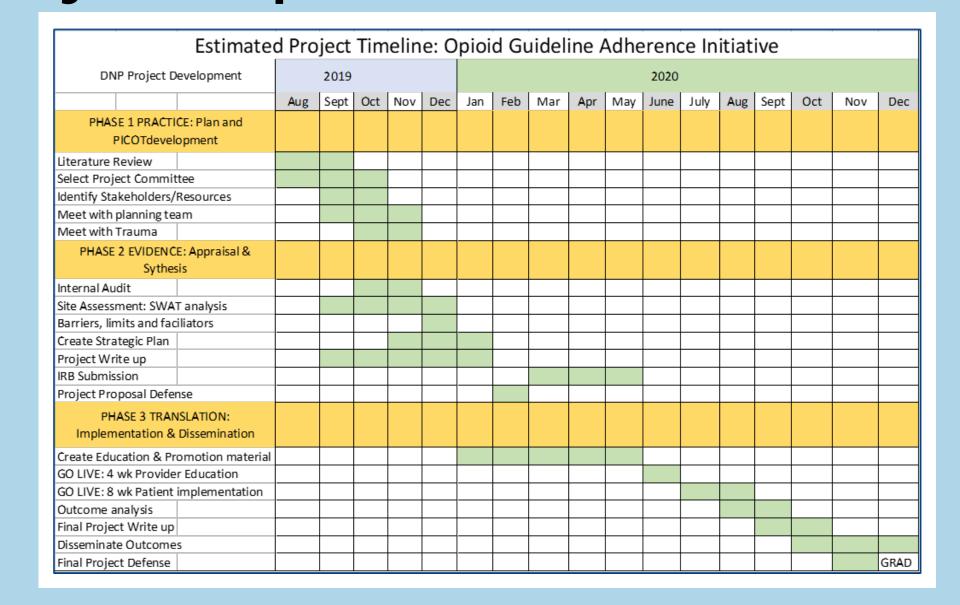
opioid prescribing guideline documentation did not improve. However, nearly 74% of those on opioids were screened for unhealthy medication

#### Outcome 3: at least 75%

- Naloxone access >50MED/day & ORS >450
- Medication risk agreement use short & long-term use) Documented communication primary care/referral Provider use of risk mitigation strategies found 20% of patients on an opioid at risk

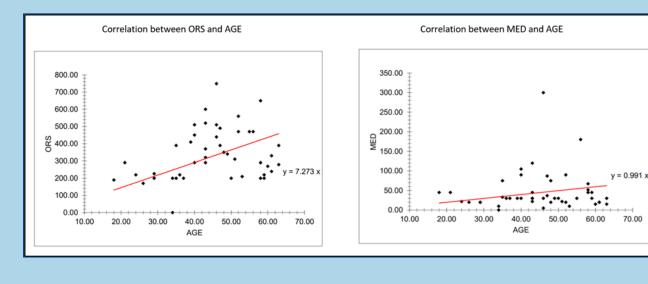
for overdose and 11% had some unhealthy medication use.

# **Project Implementation**



#### **Significant Project Challenges**

- Low provider responses limited data collection and reliability
- Covid-19: stress, increased acuity, increased time demands
- Subjective patient behaviors for misuse rather than objective risks for overdose



As AGE increases so does the use of SEDATIVES, COMORBID CONDITIONS, ORS score & MED per day thus

**INCREASED RISK FOR OVERDOSE** 

## Recommendations

- Education on opioid prescribing guidelines helped guide patient care and improve provider knowledge and comfort.
- The implementation of clinical guidelines improved monitoring of therapy and the mitigation of risks associated with opioid therapy.
- The continued use of opioid prescribing guidelines has the potential to save lives and should continue to be used to monitor risks and use of opioid therapy.

