

# Using the Cascade of Care Model as a Framework for Evaluating Opioid **Use Disorder Treatment Programs: Opportunities and Challenges** Ranjani K. Paradise, PhD<sup>1</sup>, Ceylon Auguste-Nelson<sup>1</sup>, Sharon Touw, MPH<sup>1</sup>

## BACKGROUND

- Medication-assisted treatment (MAT) for opioid use disorder (OUD) is an evidence-based approach that reduces the risk of fatal overdose.
- Many healthcare organizations are implementing or expanding MAT programs -> growing need for monitoring and evaluation of these programs.
- The cascade of care model (originally developed for HIV/AIDS treatment) can be applied to OUD and used as an evaluation framework for MAT programs



## But operationalizing this model can be very challenging!

- Standardized measures for the OUD cascade are still in development
- Many organizations have limited capacity for data analytics and reporting
- Implementing new documentation or data collection systems is not always feasible and some existing data sources may not be easily accessible

## How can evaluators and healthcare systems apply the cascade of care model in a way that is feasible and useful?

# **OUR APPROACH**

- The Institute for Community Health (ICH) is the external evaluator for three community health center (CHC)-based OUD treatment programs that are seeking to improve MAT access for the populations at highest risk of overdose and death.
- ICH reviewed the literature + gathered input from the three programs + gathered input from a content expert  $\rightarrow$  Collaboratively developed evaluation measures that leveraged available data and were meaningful and relevant to the programs
- Provide technical assistance to facilitate reporting

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# Abstinence treatment

**Retained in** 

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# **CHALLENGES AND SOLUTIONS**



## RESULTS

### "It's been a terrific exercise for us to collect this data – it jumpstarts our efforts to evaluate our office-based addiction treatment program more broadly with the cascade of care framework"

- Chief Medical Officer of a participating community health center



All data provided are from grantees' electronic health records and will not capture services provided by outside agencies. Patient panel includes patients who had an in-person encounter with an OUD diagnosis code during the time period (between 1/1/2017 and 6/30/2018 for baseline and between 11/1/2017 and 4/30/2019 for latest data). MAT initiation is defined as having a prescription for buprenorphine or injectable naltrexone during the time period. Retention in MAT is assessed using prescription data and is based on the number of consecutive days with an active prescription with gaps no longer than 29 days. Retention percentages are calculated for patients who started MAT early enough to qualify for the given retention timeframe

## Data cleaning

- Tox screen data was incomplete or outdated for most patients
- Prescription data was messy missing start/end dates, unusually long prescription lengths, overlapping prescriptions
- Standard prescription length and refill protocol varied by program
- Excluded tox screens more than 45 days old
- De-emphasized final part of cascade (abstinence) due to incomplete data and growing focus on harm reduction
- Excluded prescriptions with lengths of 90+ days
- Assigned median length to buprenorphine prescriptions missing a start or end date
- Excluded prescriptions missing both dates