"Prescribing Methadone for Opioid Use Disorder: An OTP Feasibility and Satisfaction Pilot Study"

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Disclosures and Conflicts of Interest

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Conflicts of Interest: No conflicts of interest

Regulatory Restrictions Central to Talk

FDA finalized its inaugural regulations for methadone treatment in 1972 (Food & Drug Administration). These regulations made it illegal to prescribe, administer, dispense methadone for <u>opioid use disorder</u> outside of a specific organizational structure – opioid treatment program.

• see Code of Federal Regulations (CFR): 21 CFR – Subsections 1306 & 1307 and 42 CFR - Subsections 8.11 & 8.12

BACKGROUND/RATIONALE

Overall Goal: Increase Access to Methadone for Opioid Use Disorder (OUD)

- One approach: Utilize community pharmacies (over 60,000) to administer and dispense methadone to patients with OUD
- <u>Critical Barrier:</u> Illegal to prescribe methadone for OUD outside of a federally certified Opioid Treatment Program (OTP)
- <u>Road Maps:</u> A very small number of U.S. studies of methadone prescription and pharmacy administration and the much larger amount of international work in Canada, Europe and elsewhere
- Excellent Resource: About 1,800 OTPs in U.S., subspeciality with highly experienced methadone prescribers for OUD natural laboratory for studies for methadone prescribing and pharmacy dispensing

EARLIEST WORK: PRE-1973

Authors (year)	Sample Size	Enrollment Status 1=unstable 2=stable	Main Findings	
Brill and Jaffe (1967)	9	1	1 pharmacy-good outcomes, reduced or eliminated heroin use, no adverse events in pharmacies	
Bowden, et al. (1976) ³ * data collection complete <19		1	5 pharmacies-mixed outcomes, drug use similar to baseline and similar to patients receiving methadone in OTP (72% v 78%)	
SUBSEQUENT WORK: 45+ Years Later				
Brooner, et al.	11	2	started 2018 – completed 2021 findings later in talk	
Wu, et al.	20		started 2020 - completed 2021 findings tomorrow (Dr. Wu)	

PURPOSE OF PILOT STUDY

Evaluate <u>feasibility</u> of OTP physician prescribing of methadone and community pharmacy administration and dispensing

Evaluate <u>acceptability</u> of OTP physician prescribing methadone and community pharmacy...

Evaluate <u>satisfaction</u> of OTP physician prescribing methadone and community pharmacy...

Evaluate participant retention and related clinical responses

APPROACH

Three-Month Non-Randomized Single-Arm Pilot Feasibility Study: Approach and Milestones

Regulatory Approvals

DEA: 05/2018 (13mo)

SAMSHA: 03/2018 (6mo)

Maryland: 10/2018

IRB Review

1st Subm: 09/2018 Final Appr: 04/2020*

* COVID-19 recruitment delay

<u>Participant Selection</u> Screening:

Initial 2018 Rescreen 2020

Started: 10/2020

Completed: 01/2021

Protocol Training
pharmacy staff
OTP clinical staff
research staff

3-Month Pilot Evaluation

Methadone Pharmacotherapy

- •OTP Provider Prescriptions
- Pharmacy Administration& 13-Day Take-Home Doses

All other components of care provided in OTP monthly counseling services monthly substance use testing monthly protocol assessments



Return to routine methadone dispensing in OTP

^{*}Brooner, RK, Stoller, KB, Patel, P, Yan, H, Kidorf, MS. Opioid Treatment Program Prescribing of Methadone with Pharmacy Dispensing: Pilot Study of Feasibility and Acceptability, Drug and Alcohol Dependence Reports

Inclusion and Exclusion Criteria

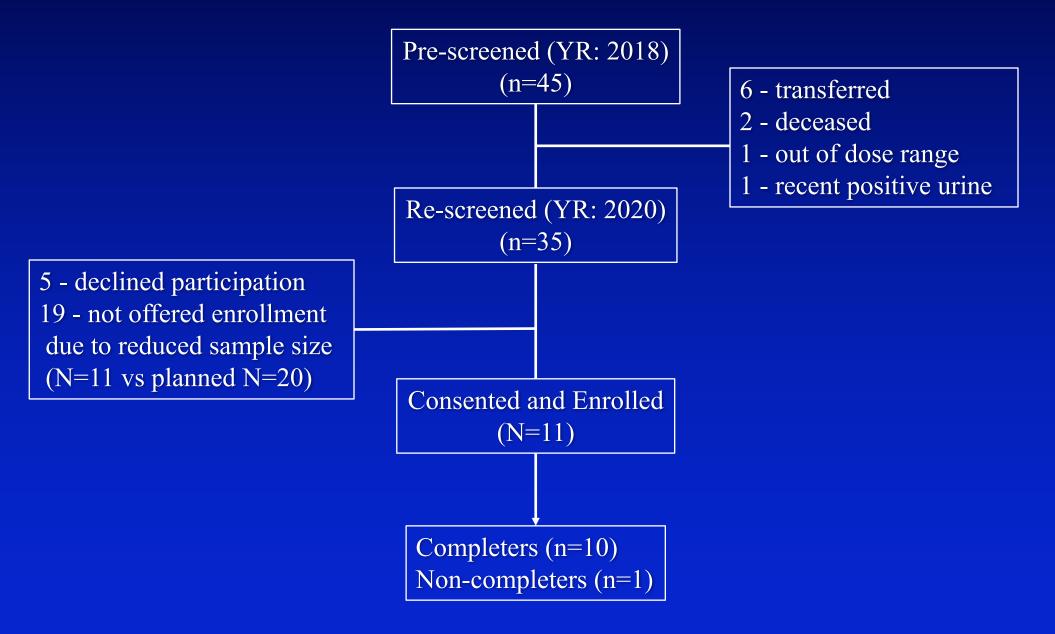
Inclusion Criteria

- 1. Current treatment episode of at least 6/mo
- 2. Stable (20–90mgs) methadone dose past 3/mo
- 3. Drug negative urine results past 6/mo
- 4. Attend ≥80% counseling sessions past 3/mo
- 5. Employed or community volunteer position
- 6. Age between 18-66 years

Exclusion Criteria

- 1. Unstable medical problem
- 2. Unstable psychiatric problem
- 3. Significant reading difficulties

Consort Table



PRIMARY FINDINGS

Baseline Characteristics of Participants (N=11)

Variable

Demographic	
Female	9 (82%)
Age (mean, range)	58 (47-65 yrs)
Caucasian	8 (73%)
Education (mean, range)	12 (9-15 yrs)
Financial Supports	
Full-time employed	8 (73%)
Commercial	8 (73%)
Medicaid	3 (27%)
Monthly income (mean)	\$1,555
Current Treatment Episode	
Duration of episode (mean, range)	19 yrs (3-34 yrs)
Duration of abstinence (min.)	6 months
Methadone dose (mean)	55mgs
Methadone take-home schedule	Every 2 weeks

Adherence: Scheduled Pharmacy Visits

Schedule: Once Every Two Weeks

Month 1*
n=11
22/22 (100%)

Month 2 n=10 20/20 (100%)

Month 3 n=10 20/20 (100%)

^{*1} participant withdrew at end of first month

Counseling Attendance and Drug Use

Counseling Attendance

- Scheduled Sessions 31
- Attended Sessions 31

Adherence Rate: 100%

Opioid Use - Data Collected Monthly

- Self-reported days of opioid use: 0/31 assessments (0%)
- Opioid positive urine specimens: 0/33 specimens (0%)

Participant Satisfaction with Pharmacy Services

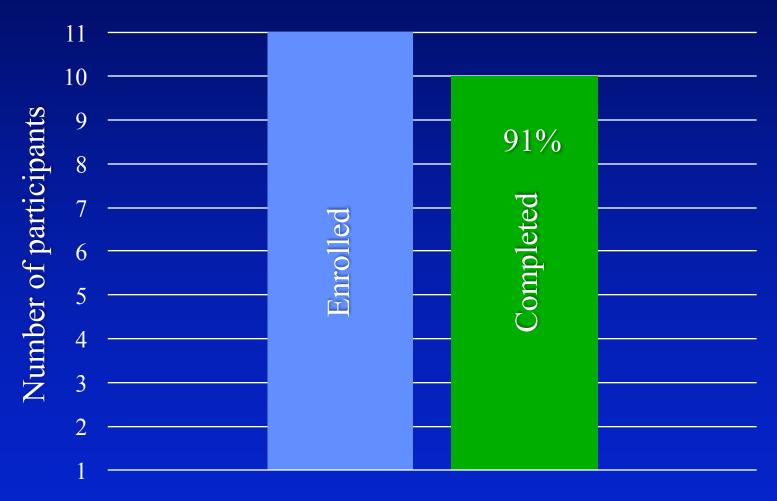
Monthly Satisfaction Summary	Ratings
Satisfaction with quality of services received at pharmacy?	Excellent (80%), Good (20%)
Satisfaction with <u>amount</u> of help received at pharmacy?	Excellent (80%), Good (20%)
Would you <u>prefer</u> pharmacy methadone dosing?	Yes (90%) or Not Sure (10%)
Satisfaction with convenience of pharmacy dosing	Very (88%) or Mostly (12%)
Satisfaction with <u>privacy</u> you received at pharmacy?	Very (92%) or Mostly (8%)
Behavioral Choice Procedure (Pay \$0 to \$50 more weekly, \$5 increments)	

Yes (100%)

How much? \$9.00/week

Would you pay more weekly for pharmacy dosing?

Study Retention



1 participant withdrew at end of first month

Findings Summary

Feasibility and acceptability:

- success receiving DEA exceptions and SAMHSA waiver
- rapid recruitment of patients, 91% completers

Shifting methadone from OTP to pharmacy had no negative impacts on:

- medication adherence: 100% adherence to pharmacy visits, high satisfaction
- counseling adherence: 100% attendance to sessions generated from OTP
- drug abstinence rates: 100% opioid negative urine specimens, no days of self-reported use

Proposed Next Steps

Obtain federal and state approvals for extension of this work to other OTPs using a collaborative approach between DEA, SAMHSA, and the states allowing providers to submit exception/waiver requests directly to the state's methadone authority to:

- conduct demonstration projects and trials for patients with shorter periods of stability, with telehealth evaluations and counseling and behavioral interventions
- extend this approach with methadone to office-based buprenorphine practices and projects evaluating safety, implementation and efficacy
- work with Medicaid, Medicare and commercial insurers to recognize prescribed methadone for OUD an accepted benefit in pharmacy coverage plans