# Alcohol Telemedicine Consult Service (ATC): Increasing Access to Treatment, including Pharmacotherapy, in Primary Care

Amy Leibowitz, PsyD

Kaiser Permanente Northern California

Center for Addiction and Mental Health Research

Presented at ASAM Annual Conference, April 5, 2024



## **Disclosure Information**

\*Presenter: Amy Leibowitz, PsyD

No disclosures

Non-Presenting Authors:

Jennifer Cocohoba, PharmD, MAS

\*Melanie Jackson-Morris, BS

Verena Metz, PhD

Sujaya Parthasarathy, PhD disclosures

(Next slide)

No disclosures

No disclosures

No

\*Derek Satre, PhD

No disclosures



## Disclosures (cont'd)

- \*Non-Presenting Author: Jennifer Cocohoba, PharmD, MAS (UC San Francisco)
  - Receives salary support as the Principal Investigator on a grant from Viiv Healthcare relating to HIV. (Ongoing through 8/2024)
  - \*Co-investigator (effort in kind, no salary support) on a grant funded by Gilead Sciences relating to HIV. (Ongoing through 2026)

## Acknowledgements

#### Division of Research

- Georgina Berrios
- Melanie Jackson-Morris
- \* Amy Leibowitz, PsyD
- Verena Metz, PhD
- Sujaya Parthasarathy, PhD
- Derek Satre, PhD
- \* Stacy Sterling, DrPH, MSW

#### **External Contributors**

- Jennifer Cocohoba, PharmD (UCSF)
- Stephanie O'Malley, PhD (Yale School of Medicine)

#### **KPNC Pharmacy**

- \* Kerri Butler, PharmD
- Christopher Chang, PharmD
- Lynn Deguzman, PharmD
- \* Keras Lo, PharmD
- \* Sarah Moline, PharmD
- Stacey Raff, PharmD
- \* Arzo Razaq, PharmD

#### Addiction Medicine

- Asma Asyyed, MD
- \* Caroline Corriveau, MD
- # Helen Geller, PhD
- Murtuza Ghadiali, MD
- Sofia Gonzalez, PsyD

#### Regional Leadership

Sameer Awsare, MD, Khai Tran, MD

#### Adult & Family Medicine

- Holly Deng, MD
- Joseph Elson, MD
- Daniel Greenwood, MD
- Jacqueline Kiang, MD
- # Janet Lai, MD
- \* Kristine Lee, MD
- \* Antonia Torreblanca, MD

Funding
NIH NIAAA
R01AA028211
PI: Stacy Sterling,
DrPH, MSW

## **Learning Objectives**

- Describe 3 barriers to linking primary care patients with appropriate treatment for unhealthy alcohol use
- Describe 3 elements of the Alcohol Telemedicine Consult service (ATC)
- Describe preliminary implementation outcomes from the ATC pragmatic RCT



## Overview

- **\***Setting
- Clinical Challenge
- \*Alcohol Telemedicine Consult service (ATC)
- \*Preliminary Pragmatic RCT Implementation Results
- Next Steps



## Setting: Large, Integrated Health System



## **Kaiser Permanente**

## **Northern California**

- 4.3 million members
- Diverse membership
- Mature EHR
- Integrated system
- Capitated payment system
- Embedded research



## ...with robust alcohol SBIRT in primary care

(Alcohol as a Vital Sign, June 2013 to December 2023)

19.7M+ alcohol screenings conducted (>99% conducted in primary care)

5M+ adults screened

79% of KPNC adult members have been screened

968K+ adults (19%) screened positive

1.2M+ brief interventions conducted

522K+ adults received a brief intervention



## Clinical challenge: Linking primary care patients with appropriate care, including pharmacotherapy

- Most patients with alcohol problems, including AUD, do not receive treatment¹
- \*Limited evidence that SBIRT increases AUD treatment<sup>2, 3</sup>
- \*Patient, provider, and system-level barriers<sup>4</sup>

"Considerable research evidence and consensus among experts support the use of pharmacologic treatments in primary care settings."<sup>5</sup>



## Pragmatic Trial Design (18 months)

16 Adult Primary Care Clinics

8 (4 Oakland + 4 SF) randomized to Usual Care Arm

8 (4 Oakland + 4 SF) randomized to ATC Arm

- ➤ Alcohol SBIRT, including:
  - Systematic screening
  - PCPs trained in brief intervention and referral
  - AUD Medications available as part of formulary

- >UC Alcohol SBIRT PLUS:
- **≻**PharmDs provide:
- Motivational enhancement
- Pharmacotherapy
- Facilitated referral to specialty Tx
- Consultation to physicians



## Lessons from a Pilot Study (2017-18)

#### ORIGINAL RESEARCH

A Telemedicine Approach to Increase Treatment of Alcohol Use Disorder in Primary Care: A Pilot Feasibility Study

Amy Leibowitz, PsyD, Derek D. Satre, PhD, Wendy Lu, MPH, Constance Weisner, DrPH, MSW, Caroline Corriveau, MD, Elio Gizzi, MD, and Stacy Sterling, DrPH, MSW

Background and Aims: Unhealthy drinking is a leading threat to health, yet few people with alcohol use disorder (AUD) receive treatment. This pilot tested the feasibility of addiction medicine video consultations in primary care for improving AUD medication adoption and specialty treatment initiation.

Methods: Primary care providers (PCPs) received training and access to on-call addiction medicine consultations. Feasibility measignificant modifications to the piloted telemedicine model: robust staffing and simpler, more flexible methods for PCPs to obtain consults.

Key Words: alcohol use disorder, naltrexone, pharmacotherapy, primary care integration, telemedicine, telepsychiatry

(J Addict Med 2020;xx: xxx-xxx)

#### Reduce PCP/exam-room time

→ Focus on referrals versus warm handoffs

### Improve tech/referral process

→ Utilize health system's EHR-based referral system

## Increase availability

→ Dedicated clinical pharmacists (1FTE)



## **Aims**

**Aim 1:** Compare ATC and Usual Care arms on <u>implementation outcomes</u>: AUD medication Rx order rates – primarily Naltrexone – and treatment referrals over two years (EHR).

Aim 2: Compare ATC and UC arms on <u>patient outcomes</u>: AUD Rx fills, specialty addiction Tx initiation, alcohol use (quantity/frequency), and service utilization over two years (EHR).

Aim 3: Understand characteristics associated with ATC implementation, and barriers and facilitators of AUD medication prescription in primary care (qualitative interviews).

## **Overview of Study Activities**

With partners in Adult Primary Care, Addiction Medicine and Regional Pharmacy:

- Developed a prescribing guideline, obtained approval from Regional Pharmacy & Therapeutics Committee
- Implemented operational tools referral and clinical documentation templates, patient-facing materials
- Intensively trained clinical pharmacists
- Trained primary care providers about the service and AUD prescribing (1 hour plus "boosters")
- Intervention phase: 9/10/21 5/31/23 (~21 months)

## Regional Practice Guideline for Unhealthy Alcohol Use

#### PHARMACY POLICY REFERENCE

Scope	NCAL Clinical Pharmacy Operations	POLICY#	N/A
TITLE	Ambulatory Care Pharmacist Practice	Effective Date	
	Guideline for Unhealthy Alcohol Use	Last Revision Date	

#### Approving Committee/Title of Person Responsible:

Chiefs of Adult and Family Medicine, Addiction Medicine and Recovery Services KPNC Pharmacy and Therapeutics Committee

**Choice of Pharmacotherapy** 

	Advantages	Considerations	Concerns	Formulary
Naltrexone	Robust evidence of efficacy, once-daily dosing, and well-tolerated with favorable side effect profile.  NTX-ER: medication adherence.	Can be used for patients who wish to reduce or abstain from alcohol use. <sup>6,7</sup> NTX-ER: Refer to Injection Clinic.	Risk of hepatotoxicity; should not be used in patients with severe liver dysfunction, i.e. LFTs >3x ULN. 1-4,8 Contraindicated within 7 days of opiate use; requires patient education in case of future need for opiate pain medication.  Potential for worsening depression and suicidal ideation, although it is uncommonly seen in clinical	Formulary generic: oral tablet  Non-Formulary Brand: Vivitrol: Injectable Suspension: Restricted to prescribing by Addiction Medicine/Chemical Dependency Specialists, Psychiatrists and Hospital Based Specialists with guideline



## **Provider- and Patient-facing Materials**



KAISER PERMANENTE eConsult

#### **SPECIALTY**



#### PROBLEM / REASON

★ Alcohol Pharmacy Consult Service

## Old Stereotypes

In the past experts thought...

There was a "one-size-fits-all" approach to alcohol treatmentand we only offered people group treatment based on the 12 steps of Alcoholics Anonymous (AA).

#### KAISER PERMANENTE

#### NALTREXONE FOR REDUCING ALCOHOL USE

- 1. What is naltrexone? Naltrexone is a medication that is FDA-approved for the treatment of alcohol use disorder (AUD). It can also help people without an AUD diagnosis to decrease or discontinue alcohol use.
- 2. How does naltrexone help people change their relationship to alcohol?

## New Knowledge

Now experts know...

People with alcohol use disorders can choose from several proven treatment options:

- Individual or couples counseling
- Group counseling
- Medications
- Mutual help programs like **SMART Recovery or AA**

Bobb et al., 2017



## Comprehensive PharmD Training, 2x/month for 9 months

- 1. Destigmatizing substance use and providing trauma-informed care
- 2. Specialty addiction medicine programs and services
- 3. Talking with primary care patients about alcohol use
- 4. Efficacy and safety profile of FDA-approved and off-label medications
- 5. Prescribing, Parts 1 & 2, including case-based practice



6. Motivational Interviewing skills, Parts 1-4: IDing stage of change, listening for change talk, OARS,



Arzo Razaq, Pharm.D., BCPS



**Sarah Moline**,
Pharm.D.

## **Primary Care Provider Trainings**



Any patient with unhealthy drinking who is not ready, willing, or able to engage in specialty treatment

#### Medications for Unhealthy Drinking

Caroline Corriveau, MD, FASAM Co-director, Addiction and Recovery Services KP Oakland KP Oakland Psychiatry Residency Addiction Rotation Site Director

Murtuza Ghadiali, MD, FASAM Chief, Addiction Medicine and Recovery Services KPSF Faculty KP Addiction Medicine Fellowship Chair, Controlled Substances Safety Committee



## **ATC: Easy Access**



- 1. Recommend to patient
- 2. Complete eConsult
- 3. Direct book appointment





## Aim 1: Implementation - Preliminary Bivariate Findings

	ATC (N=21,873)			Control (N=19,961)			
		n	%		n	%	p-value
Referrals to Tx (ATC or AM) for alcohol problems		1452	6.6%		999	5.0%	<.001
Naltrexone	For any etoh problem	396	1.8%		213	1.1%	<.001
orders	For AUD	302	1.4%		131	0.7%	<.001

## **Preliminary Multivariable\* Models**

		Rate Ratio (RR)	95% Wald CI		p-value
		ATC vs Control*	Lower RR	Upper RR	
Referrals	To ATC and/or AM	1.37	1.11	1.70	0.00
	To ATC only	87.20	18.12	419.56	<.0001
	To AM only	1.02	0.82	1.27	0.85
Naltrexone Orders	For any etoh				
	problem	1.69	1.20	2.40	0.003
	For AUD	2.18	1.51	3.14	<.0001

\*Controlling for facility, provider age/sex/race-ethnicity, years at KPNC, and specialty – i.e., internal versus family medicine

## **Case Examples**

43yo F with strong fam Hx breast cancer reports 3 drinks/night. Pt goal: avoid returning to ~6 per night, which caused blackouts. Pt accepted **specialty referral**. At conclusion of 2-month weekly outpatient treatment, specialty provider noted, "Pt reports she is drinking an average of 7-8 drinks/week, which is a significant reduction."

52yo M with fatty liver and prediabetes, drinking 4 beers, 2 cocktails plus "a couple more drinks" daily. Seen within 24 hours of PCP visit and agreed to **naltrexone**. Within 1 week, reported drinking 1-3 beers per sitting. Pharmacist noted: "Enjoys increased energy, mental alertness, sleeping through the night."

## **Next Steps**

- Aim 2 analyses Patient outcomes (Rx fills and specialty Tx initiation) and cost effectiveness
- Qualitative analyses (semi- structured interviews with primary care providers, n=19, complete)
- Develop implementation recommendations based on overall findings



## Final Takeaways/Summary

- Innovative approaches are needed to expand access to treatment for unhealthy alcohol use and address barriers such as stigma, logistics, and insufficient primary care time / resources
- \*A pharmacist-delivered, primary care-based service to address unhealthy alcohol use holds promise for increasing naltrexone prescribing and specialty addiction medicine referrals
- Components of the service included a prescribing guideline, physician and patient-facing materials, a 1-hour training for primary care providers about the service and AUD pharmacotherapy, and extensive pharmacist training



## References

- Bobb, J. F., Lee, A. K., Lapham, G. T., Oliver, M., Ludman, E., Achtmeyer, C., Parrish, R., Caldeiro, R. M., Lozano, P., Richards, J. E., & Bradley, K. A. (2017). Evaluation of a Pilot Implementation to Integrate Alcohol-Related Care within Primary Care. *International journal of environmental research and public health*, *14*(9), 1030. https://doi.org/10.3390/ijerph14091030
- Cucciare MA, Coleman EA, Timko C. (2015) A conceptual model to facilitate transitions from primary care to specialty substance use disorder care: A review of the literature. *Primary Health Care Res earch & Development*. 2015 Sep;16(5):492-505.
- Glass J. E., Hamilton A.M., Powell B. J., et al. Specialty substance use disorder services following brief alcohol intervention: A
  - meta-analysis of randomized controlled trials. *Addiction* 2015; 110:1404–1415.

Dealaille MD. Cubetanes Abuse and Mantal Health Comises Administration 2045

- Hasin, D. S., & Grant, B. F. (2015, November). The national epidemiologic survey on alcohol and related conditions (NESARC)
  - waves 1 and 2: Review and summary of findings. *Social Psychiatry and Psychiatric Epidemiology* https://www.ncbi.nlm.nih.gov/pmc/articles/ PMC4618096/
- Leibowitz, A., Satre, D. D., Lu, W., Weisner, C., Corriveau, C., Gizzi, E., & Sterling, S.A. (2021). A Telemedicine approach to Increase treatment of alcohol use disorder in primary care: A pilot feasibility study. *Journal of Addiction Medicine*, 15(1), 27–33.
- Metz, V. E., Leibowitz, A., Satre, D. D., Parthasarathy, S., Jackson-Morris, M., Cocohoba, J., & Sterling, S. A. (2022).

  Effectiveness of a pharmacist-delivered primary care telemedicine intervention to increase access to pharmacotherapy and specialty treatment for alcohol use problems: Protocol for the alcohol telemedicine consult cluster-randomized pragmatic trial. *Contemporary Clinical Trials*, 123, 107004.

## References, cont'd

Saitz R. (2010, November). Alcohol screening and brief intervention in primary care: Absence of evidence for efficacy in people with dependence or very heavy drinking. *Drug and Alcohol Review*. 29(6):631-40. doi: 10.1111/j.1465 3362.2010.00217.x. PMID: 20973848; PMCID: PMC2966031.

Substance Abuse and Mental Health Services Administration and National Institute on Alcohol Abuse and Alcoholism, Medication for the Treatment of Alcohol Use Disorder: A brief guide. HHS Publication No. (SMA) 15-4907.

