

Bluegrass Care Clinic: Coordinated team-based approach to opioid treatment with HIV primary care

Wednesday, January 12, 2022
Alice C. Thornton, MD, FIDSA
PI, KY AETC
Chief, Infectious Diseases, UK Healthcare

Learning Objectives

 Describe possible models of care for addressing the Opioid Epidemic in people with and at risk for HIV.

 Identify possible barriers to addressing Opioid Use Disorder in people with and at risk for HIV.



Financial Disclosures

None



The mission of the Bluegrass Care Clinic is to provide a continuum of high-quality, state-of-the-art, multi-disciplinary HIV primary care in a compassionate, culturally sensitive manner.







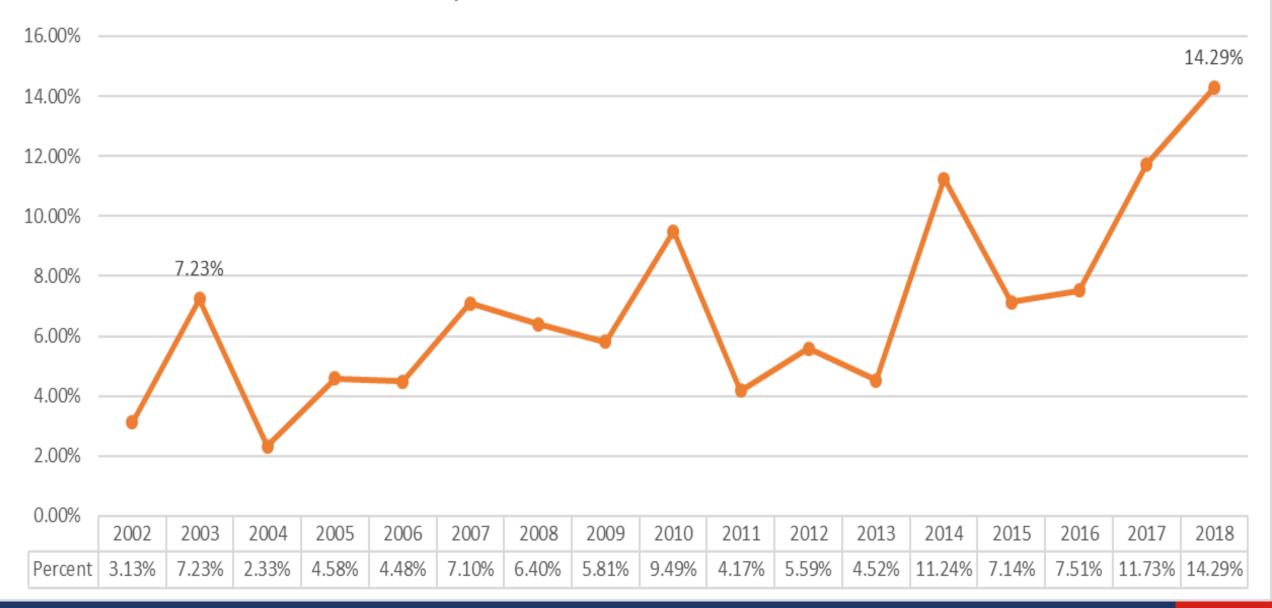
Full Range of Services

- HIV Care
- Primary Care
- Medical Case Management
- Non-Medical Case Management
- Housing Support
- Emergency Financial Services
- Adherence & Linkage to Care

- Dietician Services
- Pharmacist Services
- HIV Testing & Prevention
- Counseling
- Psychiatry
- Addiction Medicine
- HIV Education/Peer Support



BCC Newly Enrolled Patients with Risk Factor: IDU



Integrating Buprenorphine Treatment for Opioid Use Disorder (2016-2019)

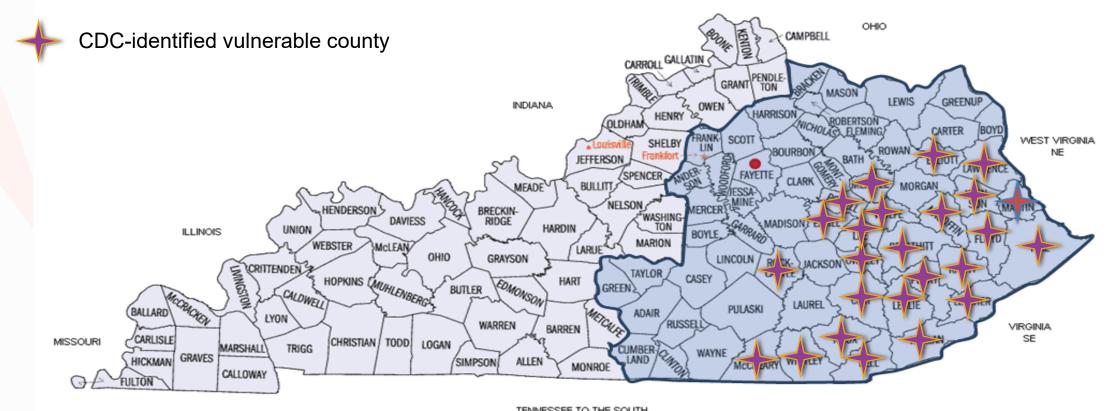
- Integrating Buprenorphine Treatment for Opioid Use Disorder in HIV Primary Care
- AIDS United/Boston University/HRSA SPNS
- Multisite evaluation study
- Patients receiving HIV primary care at BCC and diagnosed with opioid use disorder
- Physician and Counselor Dyad, APP joined later
- PI: Laura Fanucchi, MD



University of Kentucky Bluegrass Care Clinic

Map of the Bluegrass Care Clinic's Service Area

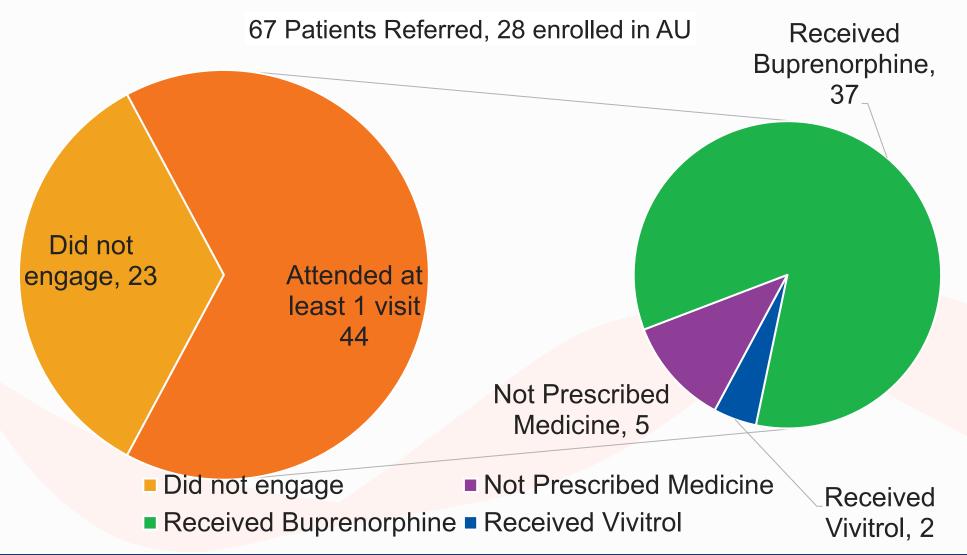
- Physical Location of the Bluegrass Care Clinic
- Outline of the Bluegrass Care Clinic's 63 county service area







Outreach & Enrollment





University of Kentucky Bluegrass Care Clinic: Lessons Learned

- Patients can have significant trauma, comorbid mental illness and additional substance use disorders.
- The BCC aimed to provide low-barrier treatment, recognizing that patients who are struggling need more help, not less.
- Providers need dedicated clinical time to provide OUD treatment because patients often need to be seen much more frequently than they would otherwise.
- Be patient. Keep a trauma-informed perspective when working with these clients. Celebrate victories with clients, no matter how small.



Key Tips and Takeaways

- Find/Empower strong leaders
- Scale up services to meet the needs of clients in crisis
 - Patients with dual diagnosis of HIV and OUD have wide ranging needs
 - Legal challenges, inadequate housing, mental health disorders and polysubstance use
 - Will need intensive case management
 - Build capacity, screen, increase treatment resources, and number of mental health staff
- Get clients to the clinic
 - Address transportation issues
 - Address telephone or communication issues
- "Ask and you will find"
 - Create an environment where patients can disclose their substance use
 - Goal: Stabilize clients, improve their health and quality of life, and create a plan for sustained services



Challenges

- Transportation largely rural
 - Public, ride service, gas cards, Medicaid transportation, taxi, Uber
- Multiple substances
 - Methamphetamines, alcohol, cocaine or benzodiazepines, heroin, fentanyl

Services

- Can have complicated medical needs, legal programs, psychosocial challenges, mental health
- Stigma
 - Community
 - Healthcare providers
 - Against MAT "substituting one drug for another one"



Sustainability Plan

- Transition from co-located to integrated care model
 - Dr. Fanucchi and Tiffany Stivers, APRN, will see patients in their existing clinic times
 - Dr. Thornton participated in training
- Transition in coordination of care new Funding
 - KORE (KY Opioid Response Effort) funded case manager for coordination of buprenorphine (all BCC patients, incl. non-HIV)
 - KORE and RW-funded mental health providers for counseling
- Ryan White Part B for ancillary service needs
 - Transportation assistance, etc.



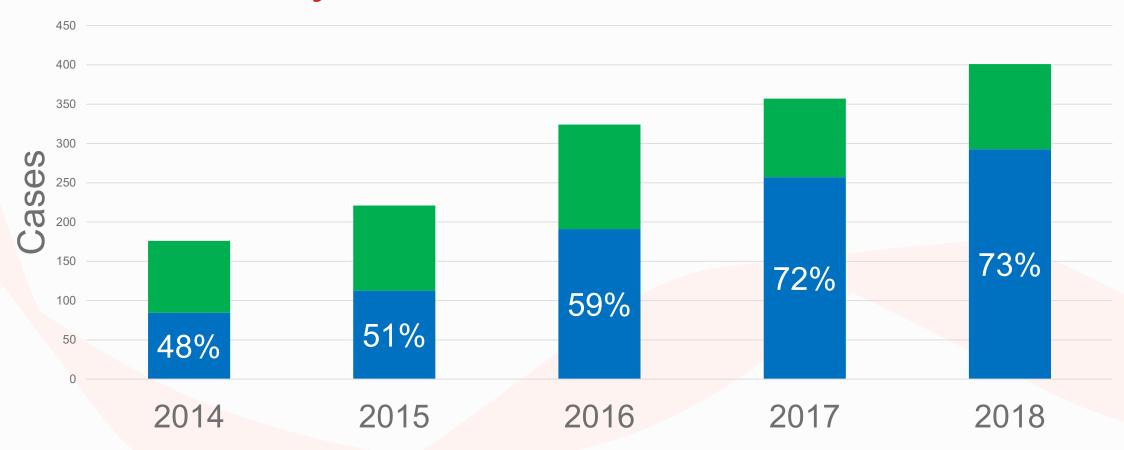


UK HealthCare

945-bed tertiary-referral, academic medical center in Lexington, KY >40,000 annual discharges



At UKHC, Endocarditis Cases Have Dramatically Increased



■ No Documented Substance Use
■ Cases with Documented Substance Use



Multi-Disciplinary Approach to Opioid Use Disorder Treatment within an Infectious Diseases Clinic



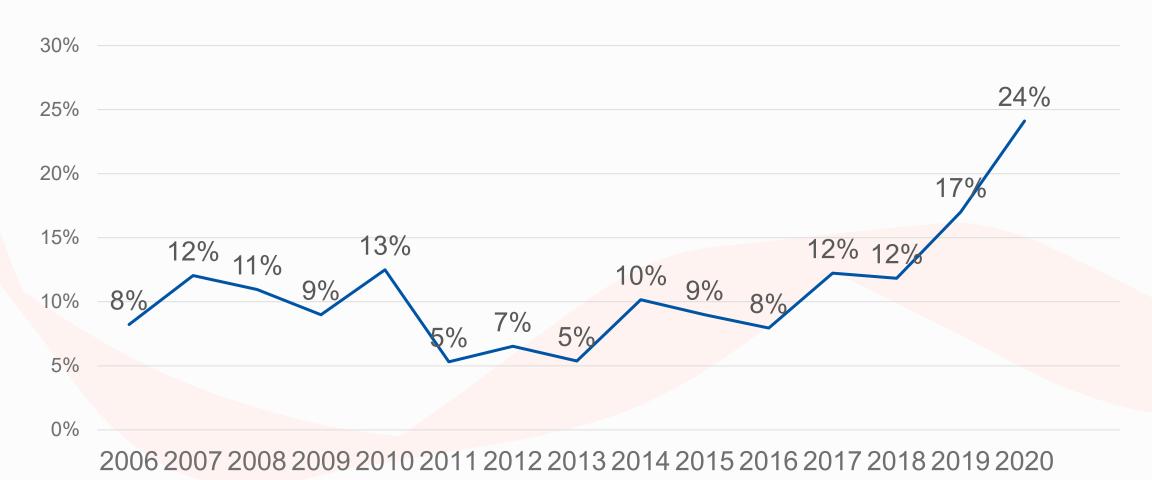


University of Kentucky Bluegrass Care Clinic Service Area (2012)

= Bluegrass Care Clinic Service Area = Location of the Bluegrass Care Clinic = PWID Diagnosed with endocarditis Robertson = Counties vulnerable to rapid spread of HIV Jefferson Shelby Rowan \bigstar Spence Lawrence Bullitt Meade Johnson Henderson Washin-Breckinridge Daviess Hardin Union Marion Webster Larue Ohio Pike Grayson Knott Muhlenberg Butler Pulaski Letcher Leslie Ballard Warren Barren Christian Carlisle Logan Marshall Trigg Todd Allen Graves Simpson Calloway



BCC Percentage of New HIV Infections Associated with IDU





WRAP PROJECT



WRAP – Wrap Around Recovery for Addiction and Infectious Disease Program (KORE-KY Opioid Response Effort) – 2018

- Project provides comprehensive outpatient wrap around services modeled after the Ryan White model for patients with co-occurring opioid use disorder and IV drug use associated infections
- Inpatient, outpatient and community partner referrals
- Provide or facilitate medications for opioid use disorder (MOUD)
- Patient progress and program efficacy measured through SAMSHA GPRA surveys 4 times over participation



WRAP Services

Individual must have:

- 1. Substance use disorder (expanded inclusion criteria 11/2021)
- 2. An infection related to IV drug use

Services offered:

- Case management
- Recovery support
- Harm reduction education
- Relapse and overdose prevention
- Linkage to care

- Counseling
- Groups
- MOUD patient coordination and maintenance
- Transportation



Our Questions

 Can we apply the Ryan White Care Act treatment model to patients with substance use disorder?

- Will this treatment model improve patient outcomes?
- Is it feasible to implement this model within an infectious diseases clinic?



Wrap Multi-Disciplinary Team

Principal Investigator	Aaron Grubbs, MD
Co-Investigators	Sarah Blevins, PharmD; Alice Thornton, MD
DATA Waivered Providers	Alice Thornton, MD; Tiffany Stivers, APRN; Aaron Grubbs, MD; Nicole Akey, PA
Clinical Pharmacist	Sarah Blevins, PharmD
Program Coordinator/SW	Grant Laugherty, CSW
Mental Health Therapist	Andrea Baker, LSCW
Case Management	Becky Rhodes, LPA
RW Grant/Data	Katie Sabitus/Ryan Weeks



Referral and Treatment Process

- ID Consult Teams
- ID consult list
- Clinic referrals
- Syringe service programs
- Inpatient addiction medicine team

Referral

Engagement

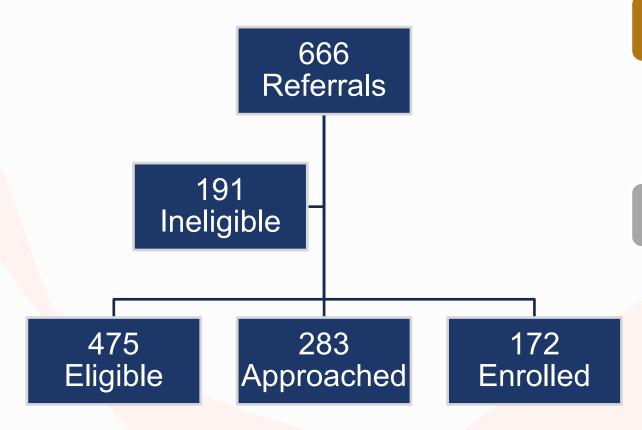
- PC and CM approach patients in the clinic, during inpatient stays, or over the phone
- Obtain consent
- Complete baseline GPRA

- Patients can either receive MOUD at Bluegrass Care Clinic or at an outside clinic
- Receive continuing care for infectious diseases at Bluegrass Care Clinic

Treatment



Who are we enrolling? (October 2019-October 2021)



Demographics

- 47% Female; 53% Male
- 94% White
- 5.8% Deceased

Ineligibility

- No opioid use disorder
 - Expanded criteria 10/2021
- Do not inject opioids
- Incarcerated/parole
- Pregnant (separate program for this)



Breakdown of WRAP

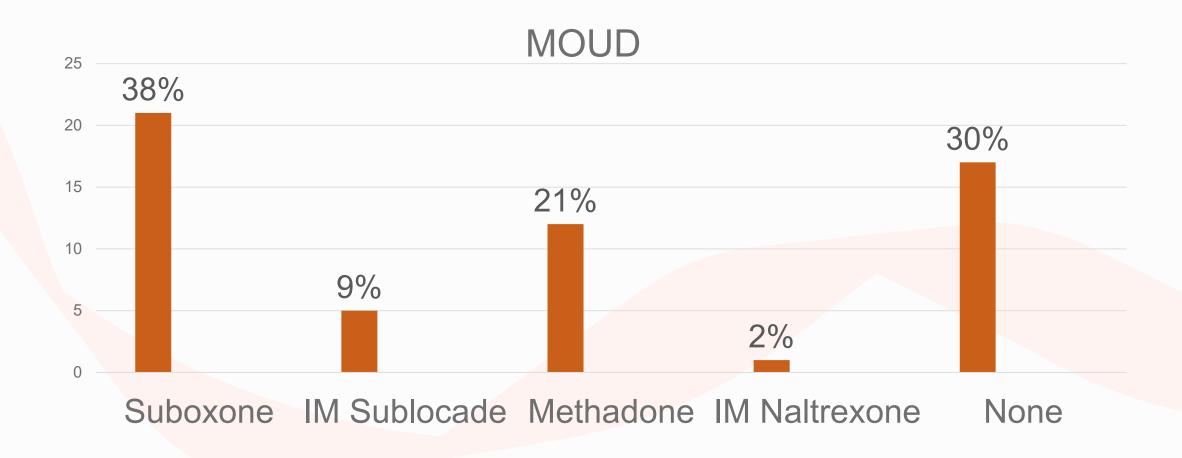
- 172 Ever Enrolled (2019-2021)
- 56 Actively Enrolled (contact within 6 months)
 - 18 dually enrolled in RW/WRAP (HIV+) and active
 - Total 23 HIV are on MOUD
 - 38 non-HIV actively followed
 - MOUD: buprenorphine (Suboxone®, Sublocade®), naltrexone (Vivitrol®), naloxone (Narcan®), methadone



Demographics

- Largely white 88%
 - 14% unreported/unknown
- Less than 1% Hispanic
- Male/female distribution was nearly equal (53%, 47%)

HIV (18) + Non-HIV (38) 56 Active

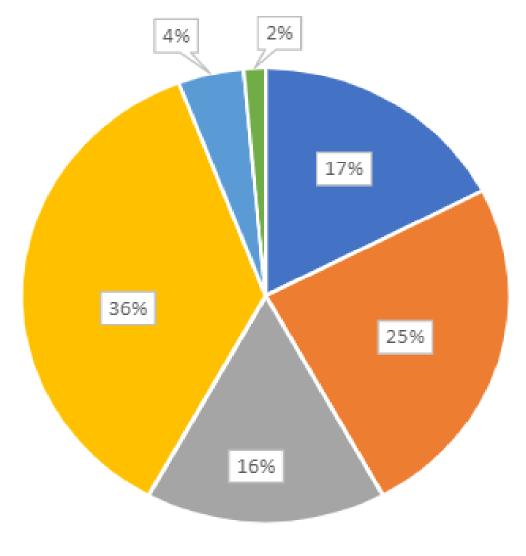




Where are Patients Receving their MOUD?

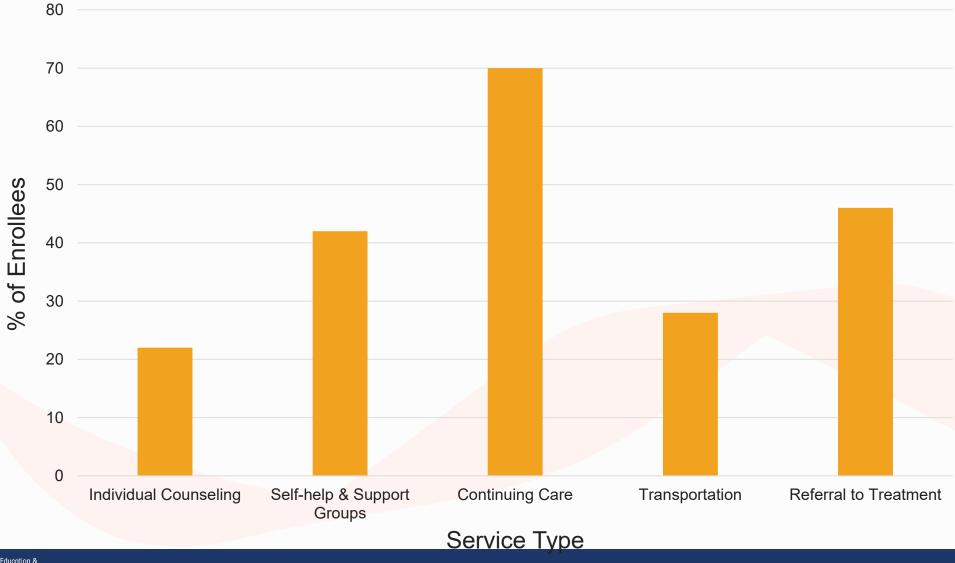


- Outide Provider
- None
- Lost to follow-up
- Died
- Completed



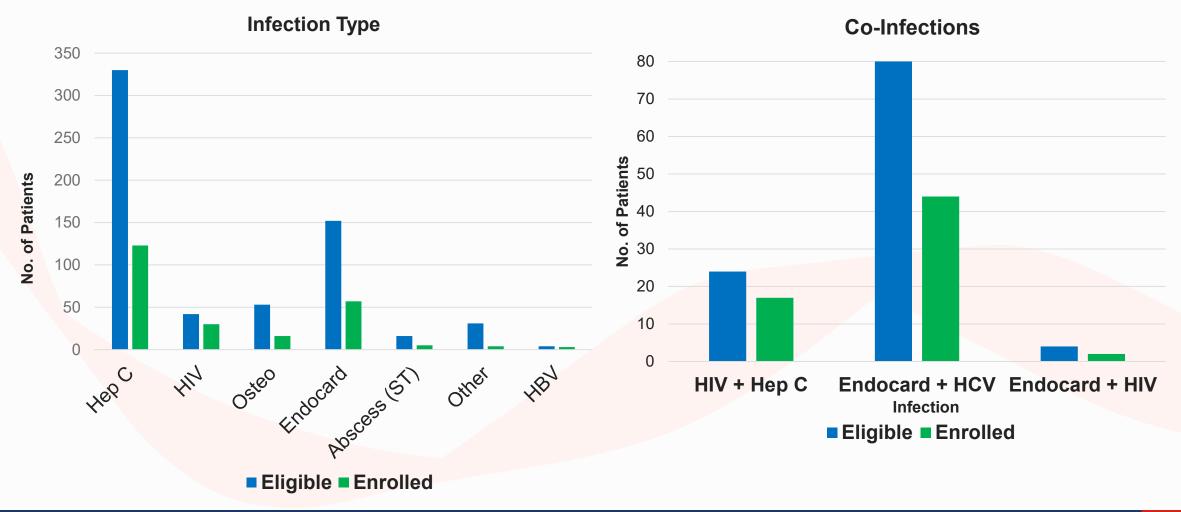


Support Services Received





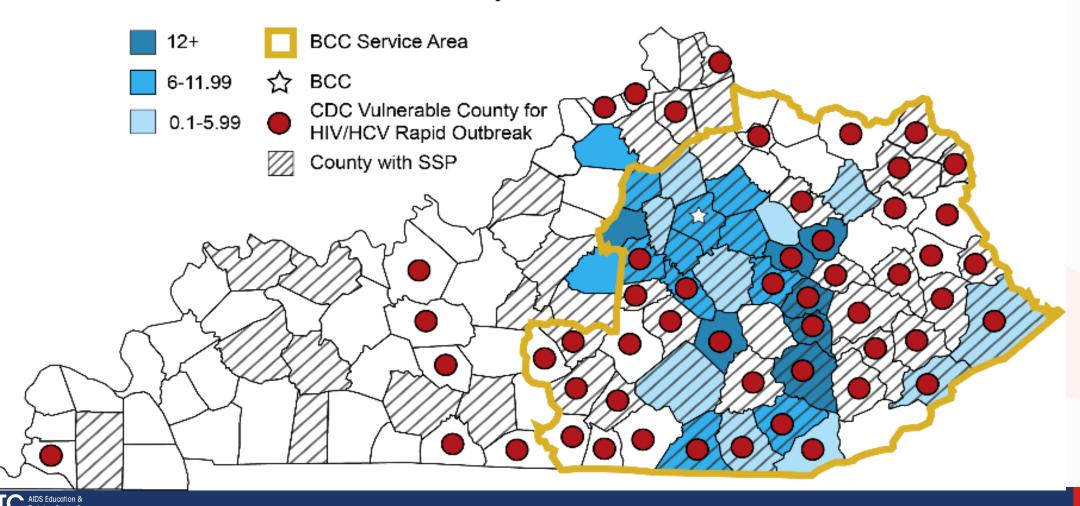
IV Drug Use Associated Infections Among Enrollees



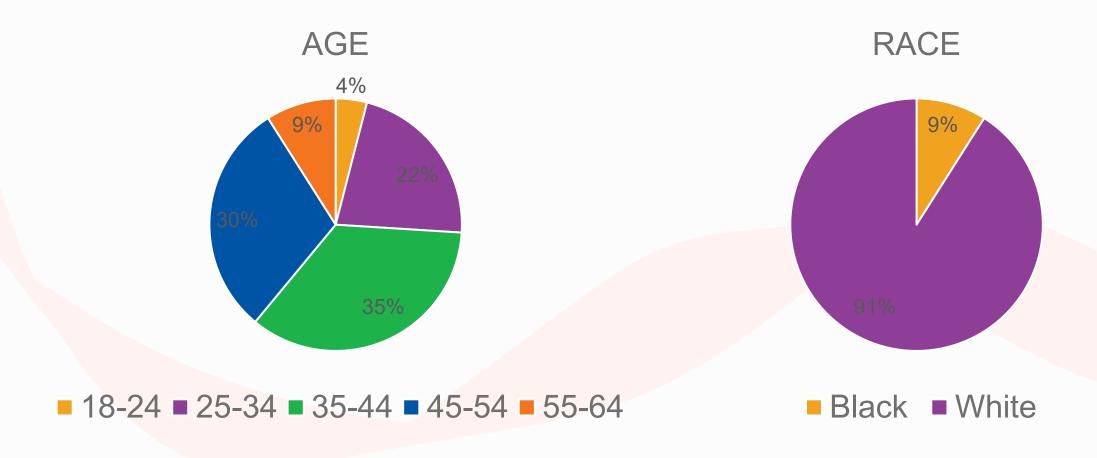


Vulnerable counties reached in 2020

WRAP Enrollees per 100k Residents

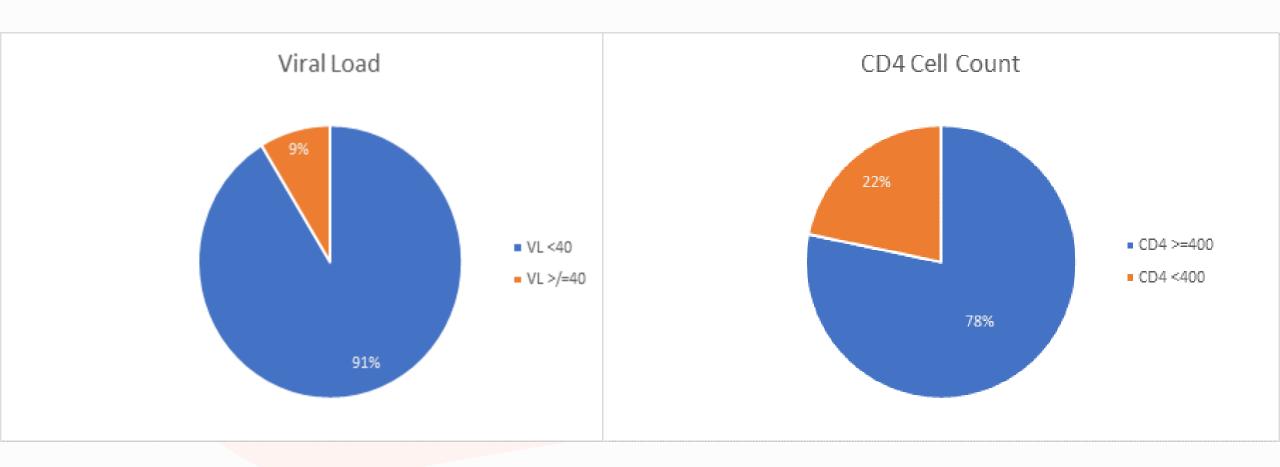


HIV Infected (18 WRAP + 5 NON-WRAP)





HIV Infected (18 WRAP + 5 NON-WRAP)





Partnerships: Higher Levels of Care

Inpatient

- ACES

 (Inpatient consult service)
- Stepworks
- Schwartz Center
- Recovery Works

Methadone

 Narcotics Addiction Program

Misc.

- UK Bridge Clinic
- 12-step groups
- Oxford House
- UK SMART
- UK PATHWAY

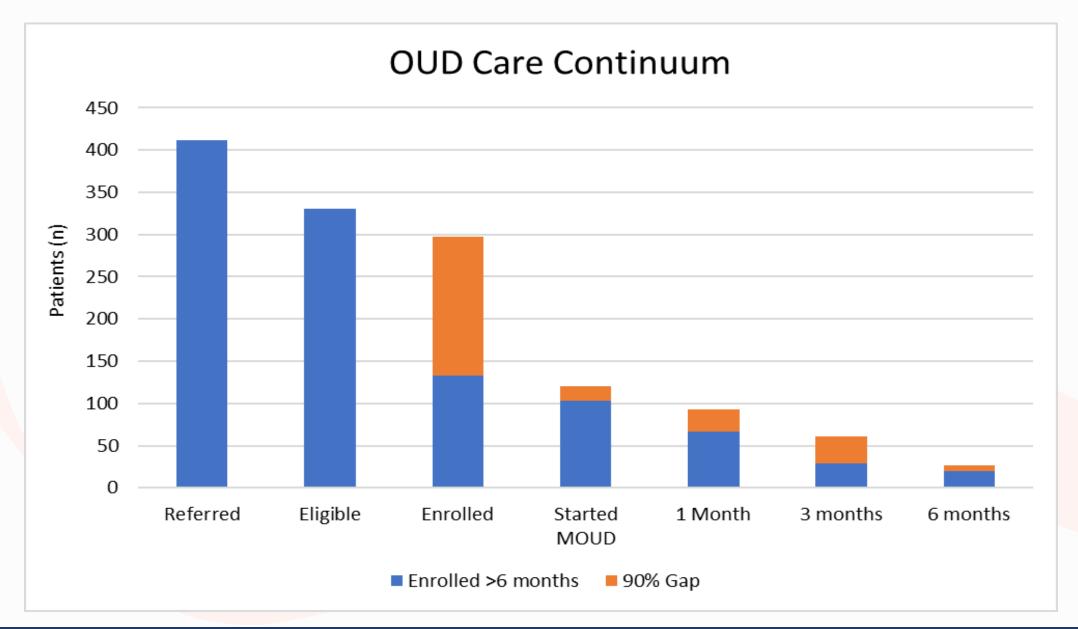


Patients are most vulnerable when they contemplate change and start medication for opioid use disorder. These time points should be priority for patient engagement.



Figure 1. UKID OUD Care Continuum; *MOUD: Medication for opioid use disorder







Time of Vulnerability

- 133 patients >6 months
- 83 on MOUD
 - 67, 29 and 20 retained at 1, 3 and 6 months
 - Time of contemplation and start of medication seems to be a time of vulnerability



Ongoing Challenges

Time commitment of ID providers

Provider reluctance to obtain DATA waiver and prescribe buprenorphine

Polysubstance use, particularly methamphetamine

Geography, reliable communication with patients, transportation

Hire and Maintain trained, culturally-competent staff



UK Addiction Consult and Education Service

Addiction Consult and Education Service (ACES)

- Started October 2018 /PI: Laura Fanucchi, MD
- KORE- funding
- Primary focus: Inpatient management of opioid use disorder (MOUD)
- Provide comprehensive SUD consultation
- Overdose/Safe injection education and Naloxone distribution
- Coordination of ongoing MOUD treatment after discharge
- Education of medical students, residents, other trainees

ACES Multidisciplinary Team



- Physician Medical Director
- Nurse Administrative Lead
- Physicians and Nurse Practitioners
- Nurse Navigator
- Clinical Social Worker
- Peer Support Specialist

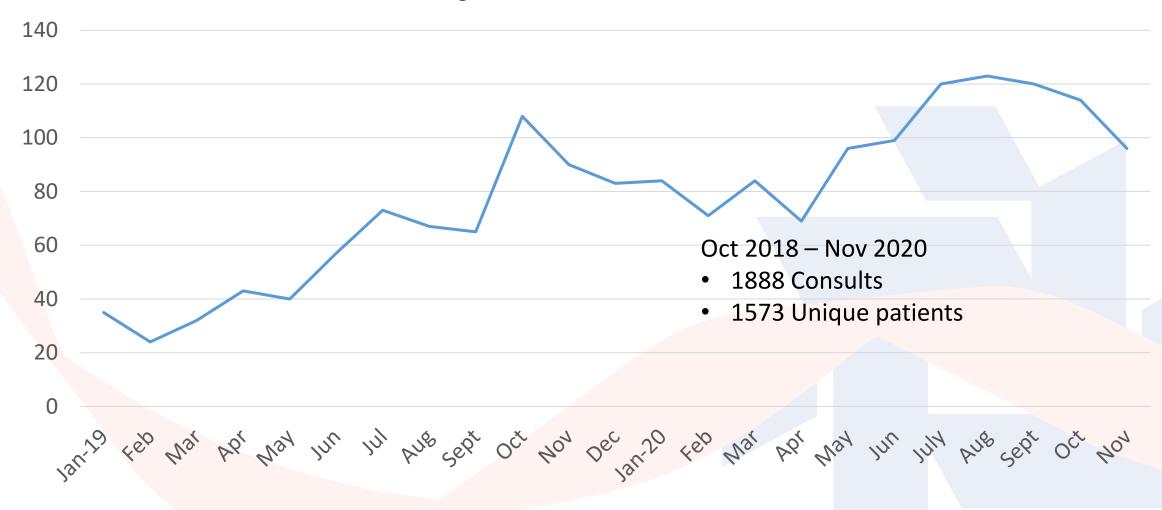
Partner in Care: UK First Bridge Clinic



- Goal: Save lives by providing lowthreshold, comprehensive treatment for OUD with MOUD
- First Bridge for OUD treatment from the ED or inpatient hospitals
- Stabilize the patient, provide ancillary services, and BRIDGE to continuing care in the community

ACES Successes and Challenges

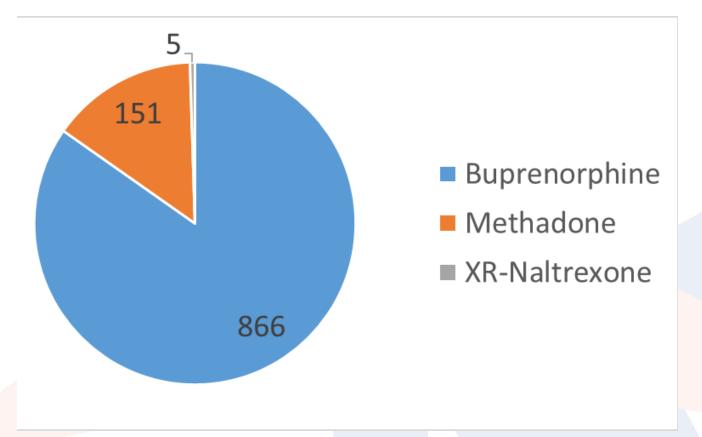
ACES Monthly Consults



ACES Results

~70% of consults with OUD

 MOUD provided for 1025 patients through November, 2020



Challenges

- Stigma from staff and providers
- Misunderstandings about MOUD
- In-hospital substance use and other behaviors
- Complicated care coordination
 - Transportation barriers
 - Lack of photo ID
 - Limited supportive housing allowing MOUD
 - Skilled nursing facilities and other settings
- Retention in follow up after discharge

Successes

- Strength of multidisciplinary team
 - More voices advocating for evidence-based treatment of OUD; reduces stigma
- Pharmacy collaboration new clinical protocols
 - XR-buprenorphine (Sublocade®)
 - Buprenorphine micro-dosing
 - XR-naltrexone (Vivitrol®)

Pilot Study: Integrated Outpatient Treatment of OUD and Injection-Related Infections

- First prospective, randomized clinical trial of OPAT in persons with OUD and SIRI
- 20 participants, randomized 1:1 to
 - Usual care complete IV antibiotics in hospital
 - Early discharge (D/C) with PICC line
- Both groups:
 - Receive buprenorphine (BUP) in the hospital
 - 12-week BUP with counseling after discharge
- Primary outcome: illicit opioid use in 12 weeks postdischarge



Results

	Usual Care (n=10)	Early D/C (n=10)	P
Completed IV antibiotics, n (%)	10 (100)	10 (100)	
LOS, mean days (±SD)	45.9 (7.8)	22.4 (7.5)	<0.001
Outpatient IV antibiotics, mean days (±SD)	1.8 (5.3)	20.1 (11.7)	<0.001



MULTI-DISCIPLINARY ENDOCARDITIS TEAM (MDET)



MDET (consult service) designed to improve the inhospital and long-term care of patients with endocarditis and other cardiac infections

Infectious Diseases Champions
Sami El-Dalati, MD

James A. Grubbs, MD Alice C. Thornton, MD

Clinical ID Pharmacist Bobbi Jo Stoner, PharmD

Advance Practice Practitioners
Sara Kirsch, PA-C
Josh Tweddell, APRN
Elizabeth Grantz, APRN

Nurse Navigator Deborah Gill, RN

Social Work
Position posted August

Addiction Champions

Laura Fanucchi, MD Daniel Weaver, MD

Cardiac Surgery Champions

Michael Sekela, MD Hassan Reda, MD Tessa London, MD

NeurosurgeryJustin Fraser, MD

Neurology Jennifer Lee, MD

Other engaged disciplines: Interventional Cardiology, Electrophysiology, Dentistry



Goals

- Improve communication between the primary medical teams and subspecialties caring for endocarditis patients
- Improve the medical and surgical in-hospital mortality of endocarditis patients
- Increase access to surgical intervention
- Improve post-hospital follow up



2015 ESC Endocarditis Guideline

Role of the 'Endocarditis Team'

- The 'Endocarditis Team' should have meetings on a regular basis in order to discuss cases, take surgical decisions, and define the type of follow-up.
- The 'Endocarditis Team' chooses the type, duration, and mode of follow up of antibiotic therapy, according to a standardized protocol, following the current guidelines.
- The 'Endocarditis Team' should participate in national or international registries, publicly report the mortality and morbidity of their centre, and be involved in a quality improvement programme, as well as in a patient education programme.
- 4. The follow-up should be organized on an outpatient visit basis at a frequency depending on the patient's clinical status (ideally at 1, 3, 6, and 12 months after hospital discharge, since the majority of events occur during this period⁵⁷).



Initial Work

- Began, Sept 2021
- 13 weekly, multidisciplinary team meetings 20+ on each Zoom meeting
- 40 patients have been presented and 40 patients followed
- 3 rotating ID faculty, 3 rotating APPs, thus far 3 trainees have rotated (1 medical student and 2 HIV fellows – PAs). One additional requested (medical student).

Final Thoughts

- It's hard work it takes time
- Each person you help, could be a life saved
- Collaborate Coalition of the Willing
- Know your limitations
- Each team member is valuable
- Monetary funds are crucial
- Dedicated team members are critical
- You could be the last medical provider to interact with this person



Thanks

L Fanucchi

S Blevins

K Sabitus

T Stivers

A Grubbs

S El-Dalati

R Weeks

G Laugherty

C Stover

