

Collaborating and Innovating with Emergency Departments to End the HIV Epidemic: Experiences from Tarrant County

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NATIONAL
RYAN WHITE
CONFERENCE
ON HIV CARE & TREATMENT

Disclosures

Tom Donohoe has no relevant financial interests to disclose.

Dr. Manza Agovi has no relevant financial interests to disclose.

Lisa Muttiah has no relevant financial interests to disclose.

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Learning Objectives

At the conclusion of this activity, participants will be able to:

1. Review how HIV, HCV, STIs, homelessness, substance use, and other health disparities intersect in EDs in EHE jurisdictions.
2. Explain the critical role EDs can play to identify new and out-of-care people with HIV in EHE jurisdictions.
3. Discuss how EHE jurisdictions and EDs can collaborate on implementing 'game changing' interventions like routine opt-out HIV screening, disclosure, addressing social determinants of health, and providing rapid ART.

Introduction and Overview



Tom Donohoe

Professor of Family Medicine

David Geffen School of Medicine at UCLA

Technical Assistance Provider-innovation network
(TAP-in)

Welcome and Introductions



**Tarrant County
Admirative Agency**
Lisa Muttiah



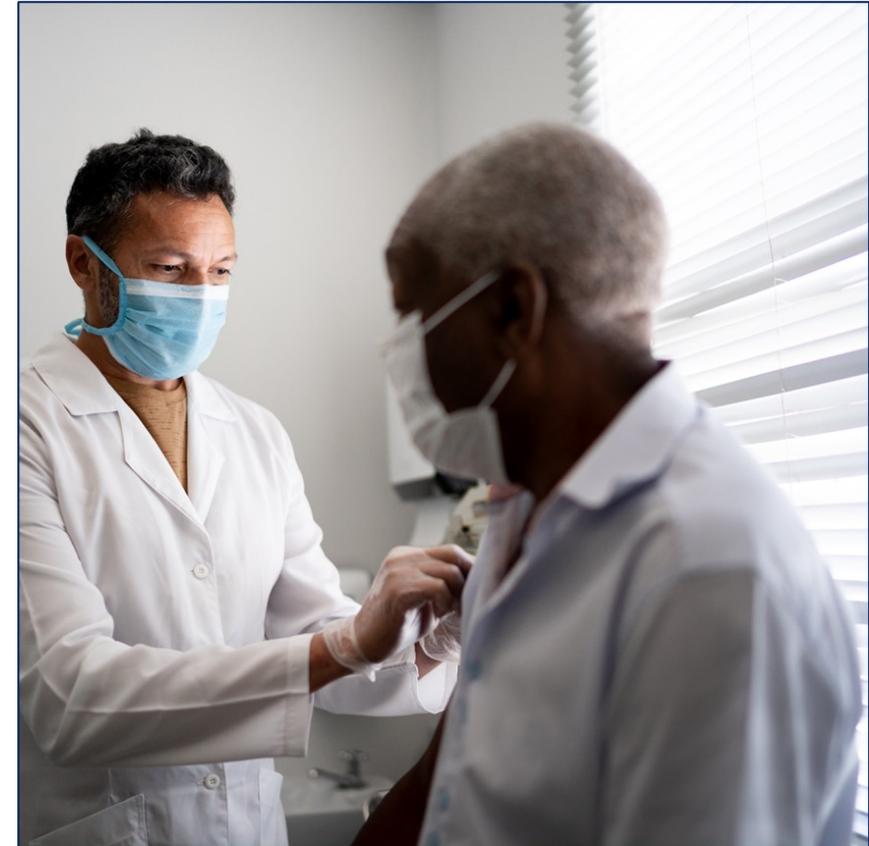
**JPS Emergency
Department**
Dr. d'Etienne
Dr. Agovi



TAP-in
Tom Donohoe
Dr. Doug White

Overview

- Ending the HIV Epidemic (EHE) will require accessing the hardest to reach populations for HIV screening and treatment.
- Emergency Departments (EDs) can play a key role in such EHE efforts by identifying, treating, linking, and re-engaging such hard-to-reach patients.



Agenda

- Introductions
- Case: James
- Role of Emergency Department in EHE
- Vision and Strategy for Tarrant County
- ED Grand Rounds: Development, Delivery, Outcomes
- JPS ED: HIV screening now, and plans for future
- JPS ED: Building Implementation Infrastructure
- Using TAP-in to work with EHE EDs
- Panel Discussion, Q/A, and continuing education

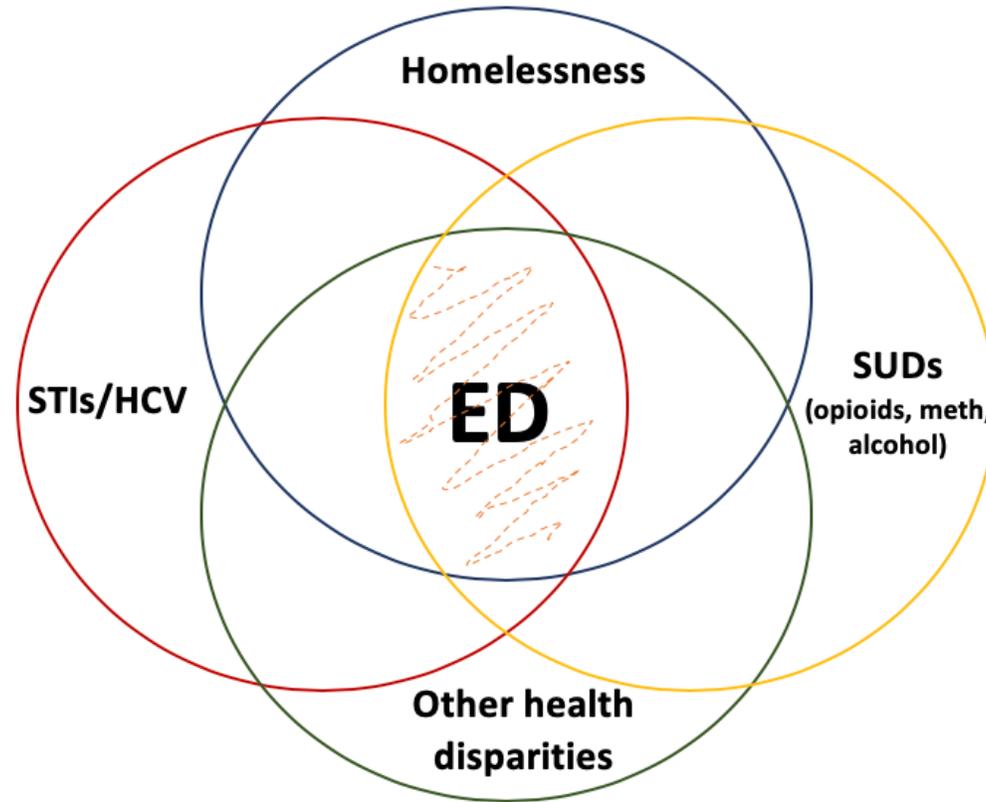
Case: James

James is a 26-year-old methamphetamine user in your area who has experienced homelessness many times over the past 5 years. During those 5 years he also visited your area's largest Emergency Department more than 8 times for heat exhaustion, the flu, vomiting, a cut finger, dizziness, and other issues. James recently tested positive through a mobile van HIV testing program that visited an encampment where he was living. With help, he made his way to a Ryan White clinic. His first CD4 count was 190 and his viral load was over 100,000 copies. However, after one year at the clinic he achieved an undetectable viral load. Recently James started using meth again and stopped coming to clinic. He does not answer his cell phone.

Case Considerations

- Does James sound like someone who could live in your community?
- Does any Emergency Department in your community offer routine, opt-out HIV screening? Do you know how it works?
- Do you think James is likely to return to using the Emergency Department for medical care, or other reasons?
- What do you think is likely to happen with James in the coming months and years?

Key Role of Emergency Departments in EHE



Lisa Muttiah
Tarrant County AA Grants Manager



Tarrant County Vision

Rapid ART in the Tarrant County Hospital District, John Peter Smith (JPS) Emergency Department as an expansion of routine opt out HIV screening program.

#1 Place for new Diagnosis

- The JPS ED has over 130,000 patient encounters annually and is the only level-1 trauma center in Tarrant County
- ED 2018 positivity rate of ± 1
- 25% of positive patients in the ED (including new, out-of-care, and in care) do not get into HIV medical care.

Technical Assistance Strategy

- Utilize TAP-in TA to bring in national experts on Rapid ART in the ED
- Develop relationship with JPS ED
- Increase buy-in and support for Rapid ART at the JPS ED
- Find local champion(s)
- Develop steering committee with JPS ED, JPS Healing Wings, Tarrant County AA, and TAP-in expert faculty
- Apply strategic financial support from Tarrant County AA to JPS ED
- Strengthen HIV testing and disclosure processes at JPS ED
- Pilot Rapid ART implementation at JPS ED

Dr. Doug White

Emergency Medicine Physician Highland Hospital



The Importance of EDs

Major portal into healthcare



National Hospital Ambulatory Medical Care Survey: 2018 emergency department summary tables. National Center for Health Statistics. Hyattsville, MD. 2021.

The Importance of EDs

Safety net



The Importance of EDs continued

ED-Based HIV Screening Works

Benefits of a Routine Opt-Out HIV Testing and Linkage to Care Program for Previously Diagnosed Patients in Publicly Funded Emergency Departments in Houston, TX
 Charlene A. Flash, MD, MPH,* Siavash Pasalar, PhD,† Vagish Jessica A. Davila, PhD,‡ Camden J. Hallmark, MPH,§ Marlene McNeese, Michael C. Ruggiero, BAPH,† and Thomas P. Giordano

Results of a Rapid HIV Screening and Diagnostic Testing Program in an Urban Emergency Department
 Douglas A. E. White, MD

DIFFERENCES BETWEEN EMERGENCY NURSE PERCEPTION AND PATIENT REPORTED EXPERIENCE WITH AN ED HIV AND HEPATITIS C VIRUS SCREENING PROGRAM
 Douglas A. E. White, MD; Frank Lovecchio, DO, MPH; Jason Knight, MD; Robert Frumkin, MD, MPH; Robert Hobohm, MD; J. Stephen...

Patient Understanding of HIV and Hepatitis C Testing in an Emergency Department with an Integrated...
 Erik S. Anderson, MD^{1,2}, Sarah K. Pfeil, BS¹, Har... and Douglas A. E. White, MD¹

Clinical Utility of the Signal-to-Cutoff Ratio of Reactive HIV Antigen Tests in Guiding Emergency...
 White, Douglas A. E. MD; Anderson, Erik S. MD; Carly MS⁴; Lyons, Michael S. MD, MPH;...

Identification of Acute HIV Infection Testing in an Opt-Out Emergency Department...
 Kara I. Geren, MD, MPH; Cheri Tomlinson, MPA; André Valdez, PhD; Jason...

Acute HIV Discovered During Routine Screening With HIV Antigen-Antibody Combination Tests in 9 US Emergency Departments
 Douglas A. E. White, MD*; Thomas P. Giordano, MD; Siavash Pasalar, PhD; Kathleen R. Jacobs...

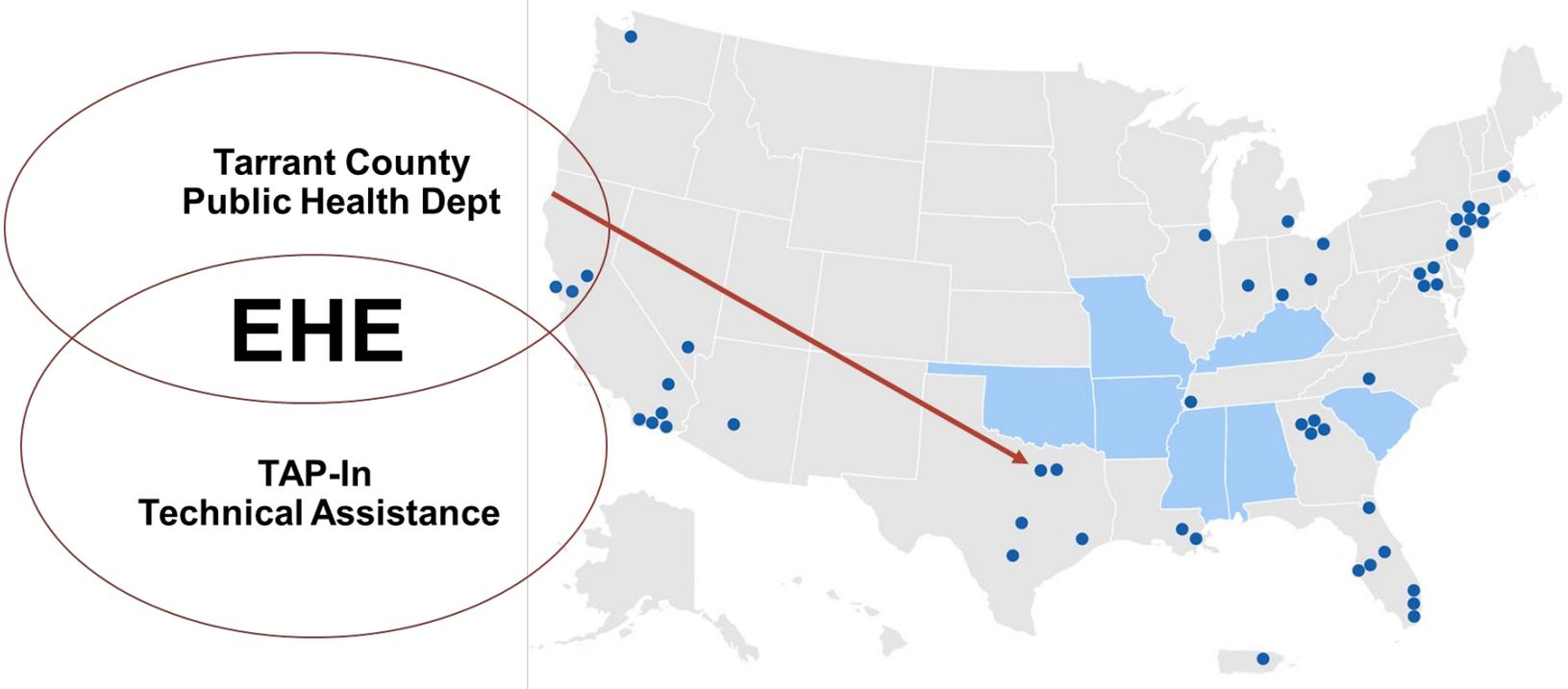
A systematic review of emergency department based HIV testing and linkage to care initiatives in low resource settings
 Bhakti Hansoti^{1*}, Gabor D. Kelen¹, Thomas C. Quinn², Made... DesRosiers¹, Steven J. Reynolds², Andrew Redd², Richard...

A Comparative Effectiveness Study of Two Nontargeted HIV and Hepatitis C Virus Screening Algorithms in an Urban Emergency Department
 Douglas A. E. White, MD*; Tamara Todorovic, MPH; Mae L. Petti, BA; Kaitlin H. Ellis, BA; Erik S. Anderson, MD

HIV Risk and Pre-Exposure Prophylaxis Eligibility Among Emergency Department Patients
 Jason S. Haukoos, MD, MSc^{1,3*}; Carolynn Lyle, PA, MPH^{1,3}; Kevin Kamis, MPH⁶

Original Investigation | Emergency Medicine
Comparison of HIV Screening Algorithms in an Emergency Department: A Randomized Clinical Trial
 Jason S. Haukoos, MD, MSc; Michael S. Lyons, MD, MPH; Richard E. Rothman, MD, PhD; Douglas A. E. White, MD; Emily Hopkins, MD; Andrew H. Ruffner, MA; Rachel M. Ancona, PhD; Yu-Hsiang Hsieh, PhD; Stephen C. Peterson, MBA; Danielle Signer, BS; Matthew F. T. Sarah K. Pfeil, MD; Tamara Todorovic, MPH; Alla A. Al-Tayyib, PhD; Lucy Bradley-Springer, RN, PhD; Jonathan D. Campbell, PhD; Edward Sarah E. Rowan, MD; Allison L. Sabel, MD, MPH, PhD; Mark W. Thrun, MD; for the HIV TESTED Trial Investigators

Grand Rounds: Tarrant County



Grand Rounds Preparation

- Discussions with key stakeholders
- Informal needs assessment
- Construct a care cascade



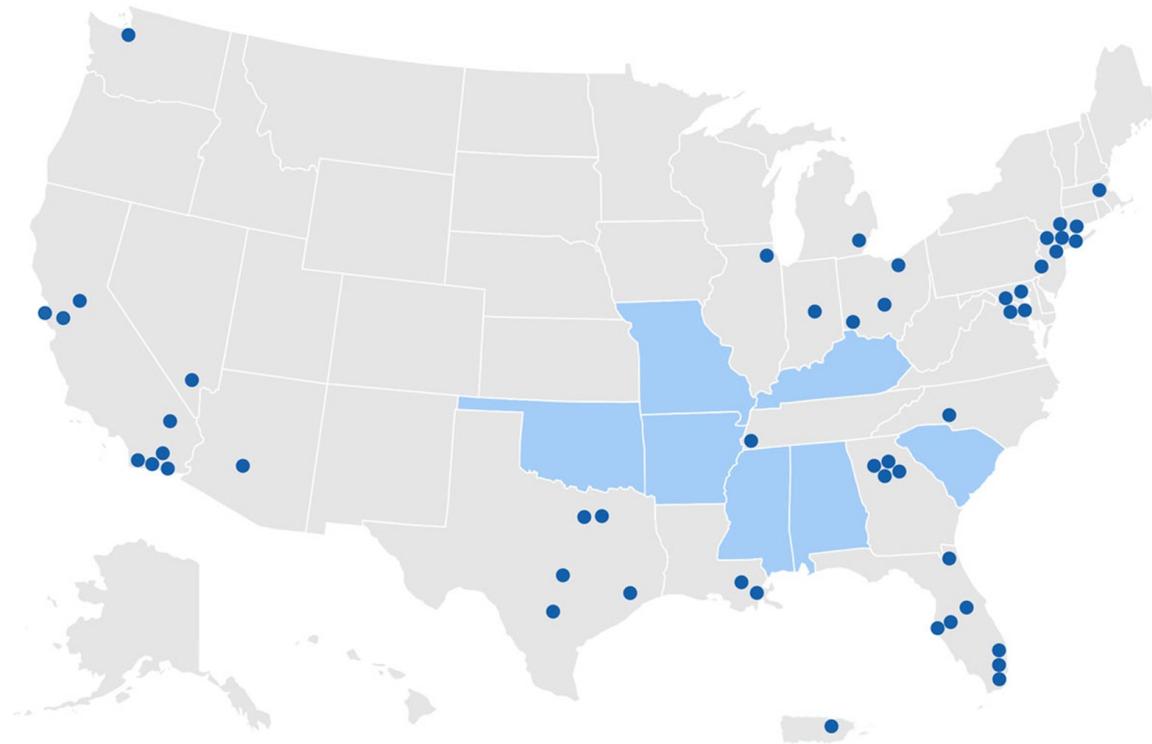
Grand Rounds Gameplan

- **Engage and motivate staff**
 - **Capacity to End the HIV Epidemic in their local health jurisdiction**
 1. Expansion screening capacity
 2. Integration into EHR
 3. Importance of reengagement
 4. Reframing care continuum (Rapid ART)

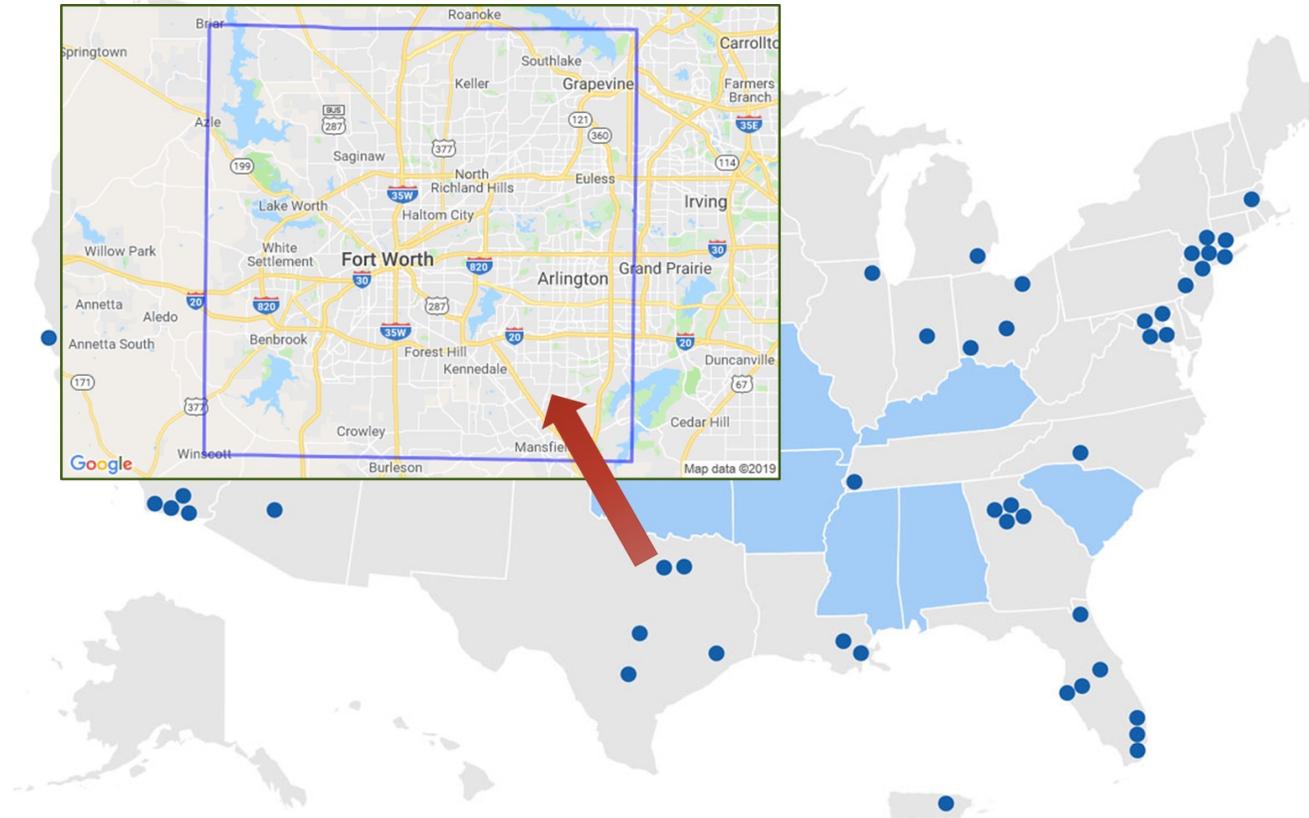
Grand Rounds Goals



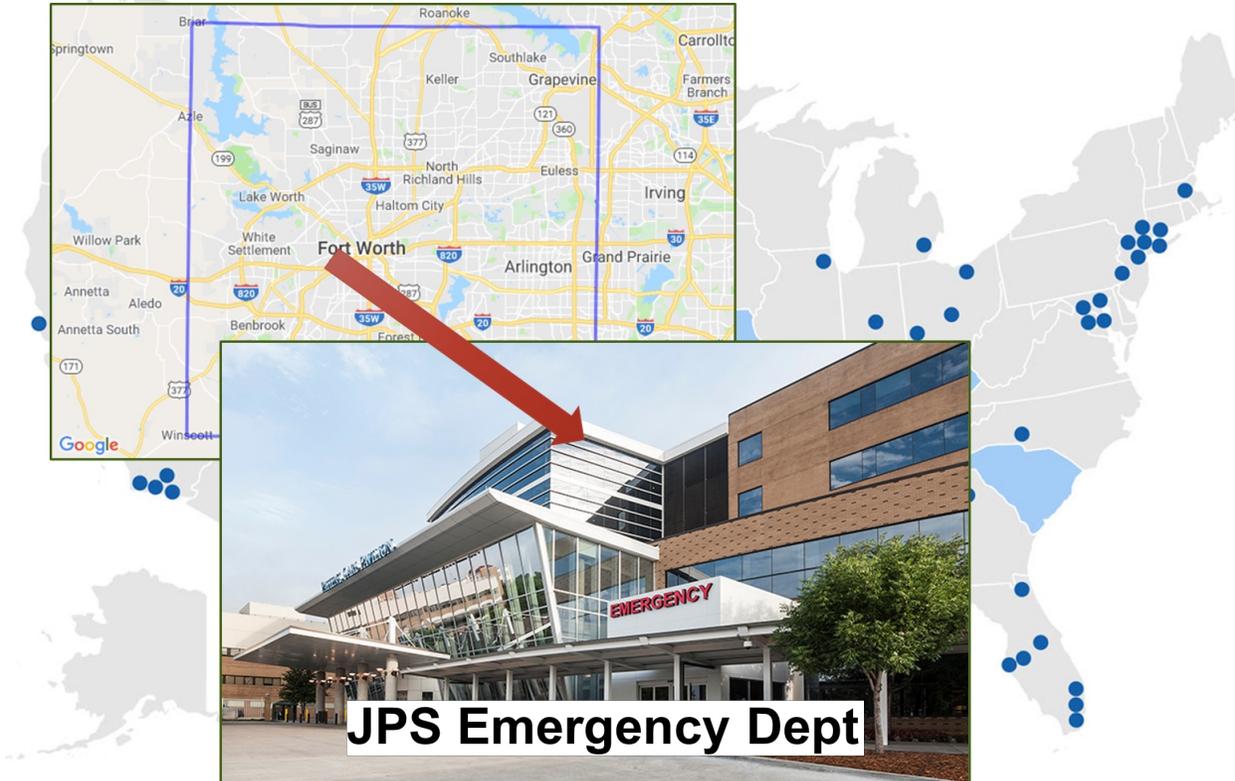
What We Do Actually Matters



What We Do Actually Matters Hotspots



What We Do Actually Matters: JPS



Routine Screening: Electronic Medical Record and Lab Ordering

The screenshot displays the Epic EMR interface for a patient named Douglas W. ASAP. The main window shows the 'Orders' section with a 'Quick List' tab selected. A 'BestPractice Advisory' dialog box is overlaid on the screen, titled 'BestPractice Advisory - Jimenez Garcia, Elfigo'. The advisory contains a yellow warning box with the text 'Patient is eligible for HIV testing'. Below this, there are two buttons: 'Order' and 'Do Not Order'. To the right of the 'Do Not Order' button is a link for 'HIV Ab/Ag with reflex to viral load'. At the bottom of the dialog box are 'Accept' and 'Cancel' buttons. The background interface shows various patient information, including 'Discharged', 'Needs Interpreter: Spanish', and a list of medical orders.

Reengagement: Out of Care HIV + Clients

The screenshot displays a medical software interface. At the top left, there is a 'Problem List' section with a checkmark icon. Below it, a notification states: 'New problems from outside sources are available for reconciliation'. Under the heading 'Non-Hospital', a list of medical conditions is shown, each with a document icon and a flag icon: 'Bipolar 2 disorder (CMS/HCC)', 'COPD (chronic obstructive pulmonary disease) (CMS/HCC)', 'HIV (human immunodeficiency virus infection) (CMS/HCC)', 'Hypertension', and 'CHF (congestive heart failure) (CMS/HCC)'. Below this list, the word 'Anxiety' is partially visible. In the foreground, a 'Patient FYIs' (Follow-up) notification box is open. It contains the text: 'Public Health Linkage', 'HIV LINKAGE: Patient is HIV+ out-of-care and LTFU.', and 'Please alert team if patient is in AHS. Montana, Linkage Navigator, O: 510-437-5019 C: 510-846-0336'. To the right of the notification, a 'My Note' section is partially visible. Below the notification, a 'Discharged' status is shown with a red circle icon. At the bottom of the interface, a 'First Provider Time' button is visible.

HIV Navigators

ED



Substance Use Rx



ER Staff



Jail Rx



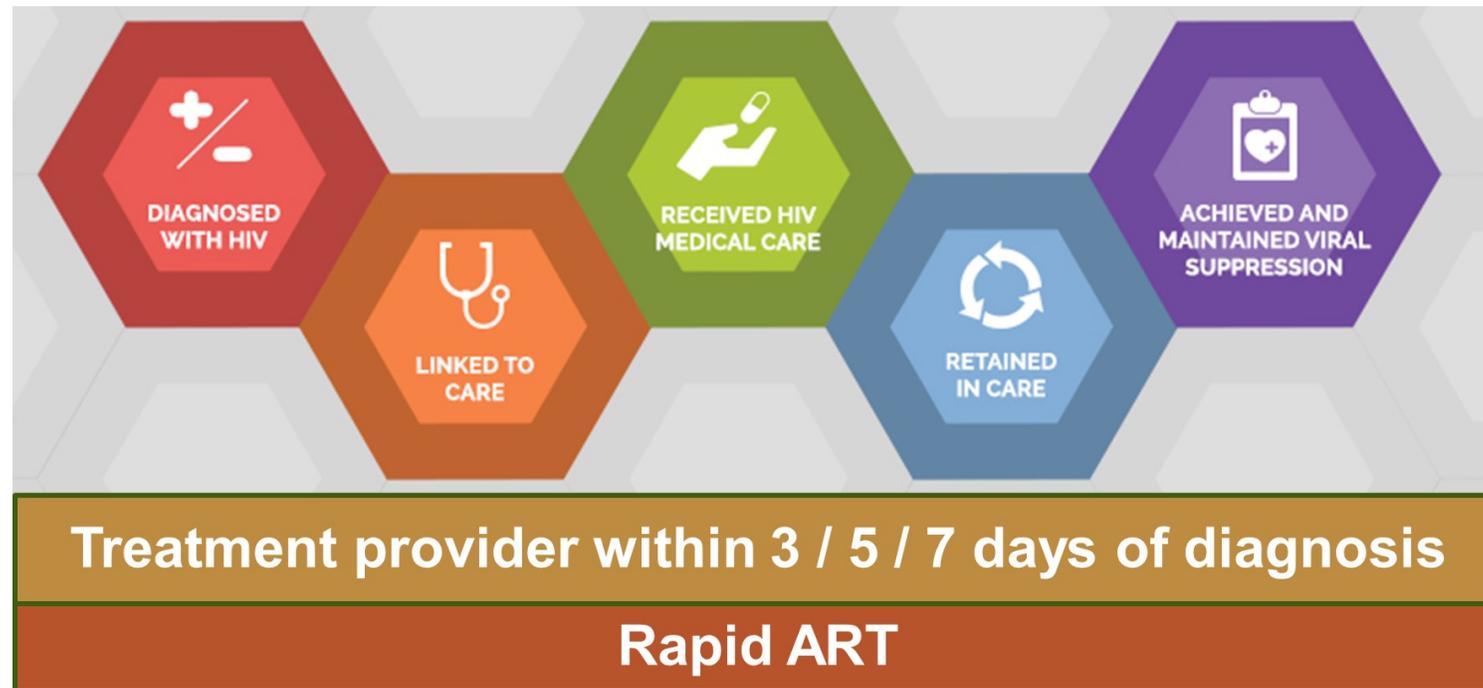
HIV Clinic



Mental Health Rx



EHE: Reframe Care Continuum

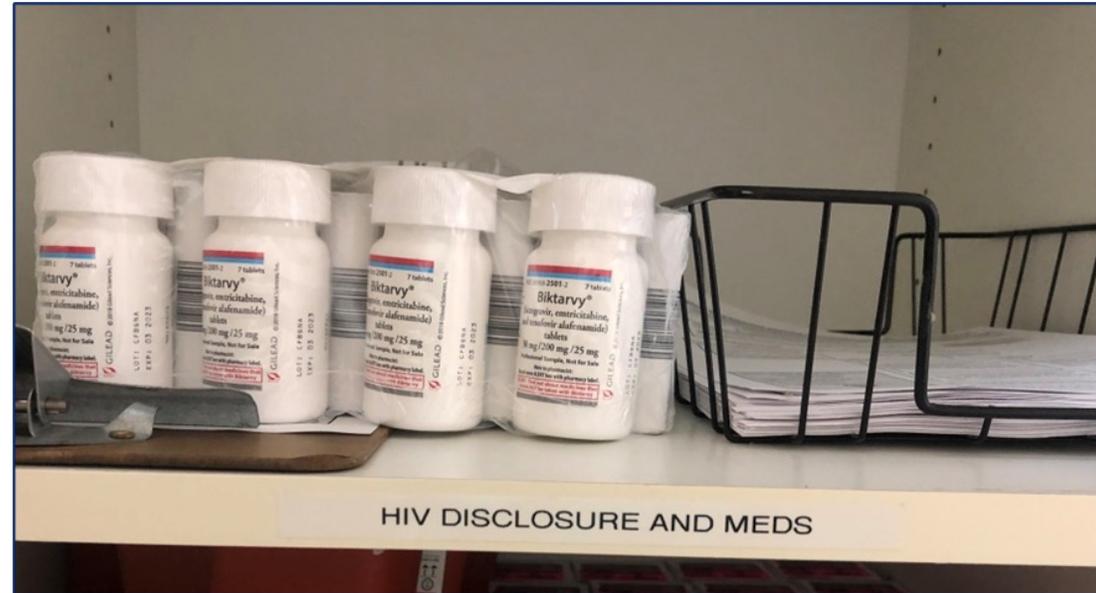


Disclosure



Rapid ART

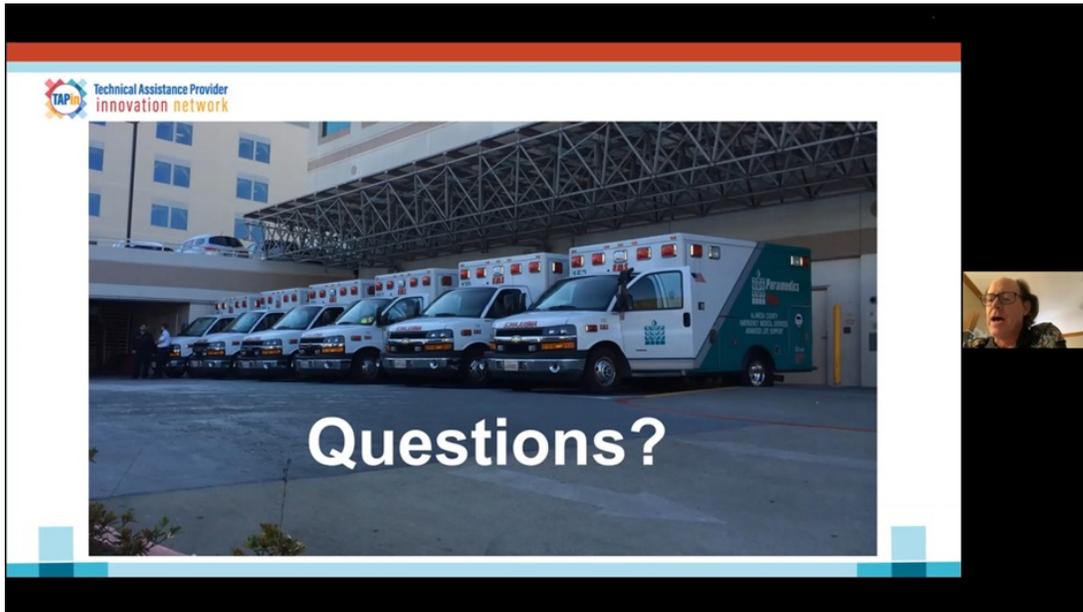
- ↑ *Linkage to care*
- ↑ *Retention in care*
- ↑ *Viral suppression*



Success with Starter Pack Program

Insight START Study Group, N. Engl J Med. 2015;373(9):795-807; TEMPRANO ANRS Study Group, N Engl J Med. 2015;373(9):808-822; Mateo-Urdiales et al. Cochrane Database Syst. Rev. 2019; Pitcher, JAIDS 2017; Coffey, AIDS 2019, Koerig, PLoSMed 2017, Colasanti, OFID 2011

JPS Grand Rounds and Outcomes



After Grand Rounds:

- Steering Committee with Champions and leaders established
- Coordinating with JPS Healing Wings Clinic
- Jurisdiction strategically deploying funds to support implementation

Dr. James d'Etienne
Chief of Research and Knowledge Translation



JPS ED Next Steps

Where we have been...

- Routing opt-out screening
- JPS Healing Wings
Disclosure/Patient Navigation

Where we are going...

- Systems thinking and building internal collaboration
- Update and automate routine screening
- Pilot: disclosing HIV test results and starting clients on ART in the JPS ED
- Improve patient navigation
- Potential EHE resources for ED

Dr. Manza Agovi
JPS Manager, HIV Research Program



Assess implementation infrastructure needs

- Evaluate gaps in processes and supportive services
- Data needs for program evaluation
- Assessing fit and feasibility

EHR modifications

- Engaging IT and lab leadership
- Learning from best practices
- Program evaluation data (Redcap)

Opportunities to address STI prevention

- HIV prevention with adopting a status neutral approach
- Other STIs (syphilis)

TAP-in ED Resources and Plans

Innovations in the ER: Collaborations among Emergency Departments, TA Providers, & Health Jurisdictions to Identify and Treat HIV, HCV, and Syphilis (August 2021)

National/Local Implementation Experts:

Kathy Jacobson, MD, Chief, California STD Control Branch

Kristopher Lyon, MD, Public Health Officer Kern County, California

Kim Hernandez, MPH, Assistant Division Director of Public Health, Kern County Public Health

Kian Azimian, MD, Emergency Medicine Physician, Bakersfield Memorial Hospital

TAP-in ED resources and plans: Innovations

Innovations in the ER: Collaborations among Emergency Departments, TA Providers, & Health Jurisdictions to Identify and Treat HIV, HCV, and Syphilis (August 2021)

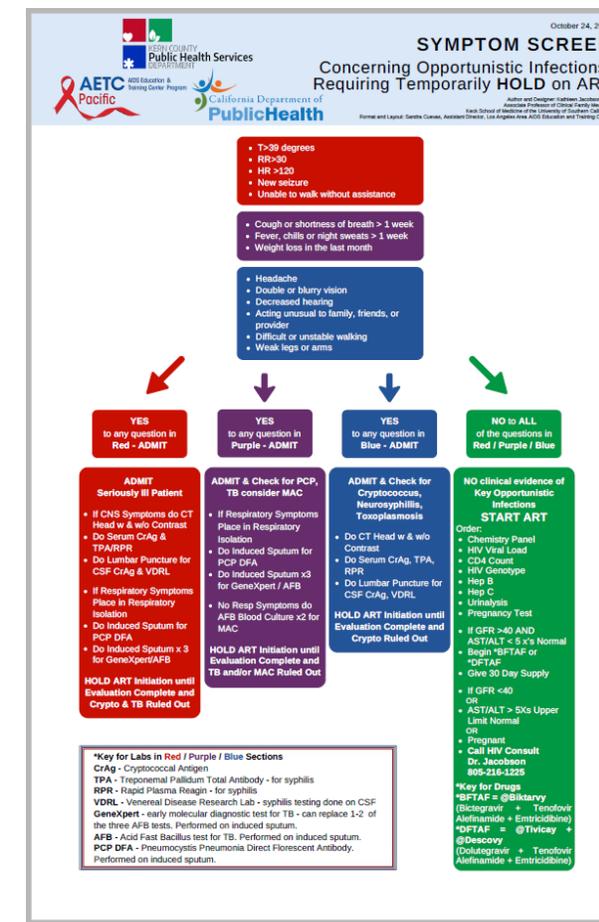
<https://targethiv.org/library/innovations-er-collaborations-among-emergency-departments-ta-providers-health-jurisdictions>



TAP-in ED Resources and Plans: Decision Tree

Kern County Rapid ART Decision Tree for Temporary Holds for ART in ED

- Patients are usually quite ill
- Most will require admission due to fever, OI, other severe condition
- Symptom screen also includes lab work that should be completed in each case



TAP-in ED Resources and Plans: Fort Worth Grand Rounds

Fort Worth (Tarrant County) JPS Emergency Department Grand Rounds

Recording August 2021

Doug White, MD

<https://fortworthem.com/ed-grand-rounds-hiv-diagnosis-and-management-from-the-ed/>

Technical Assistance Provider
innovation network

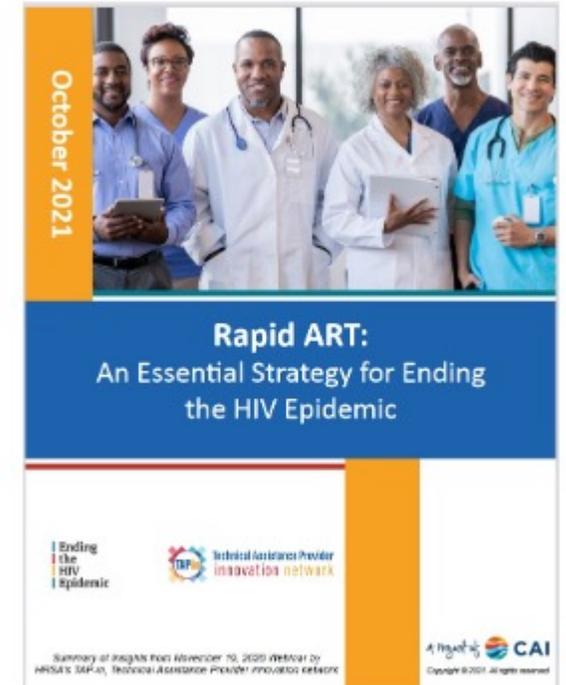
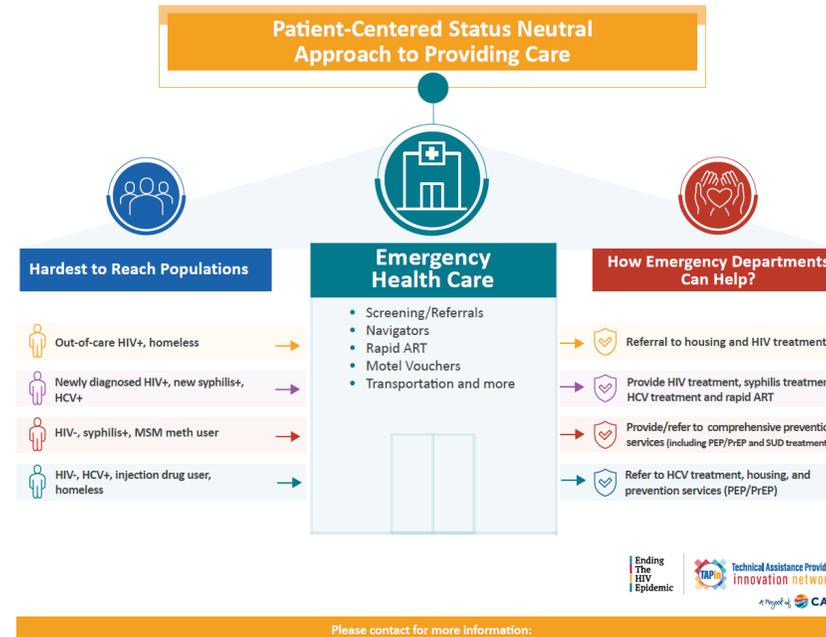
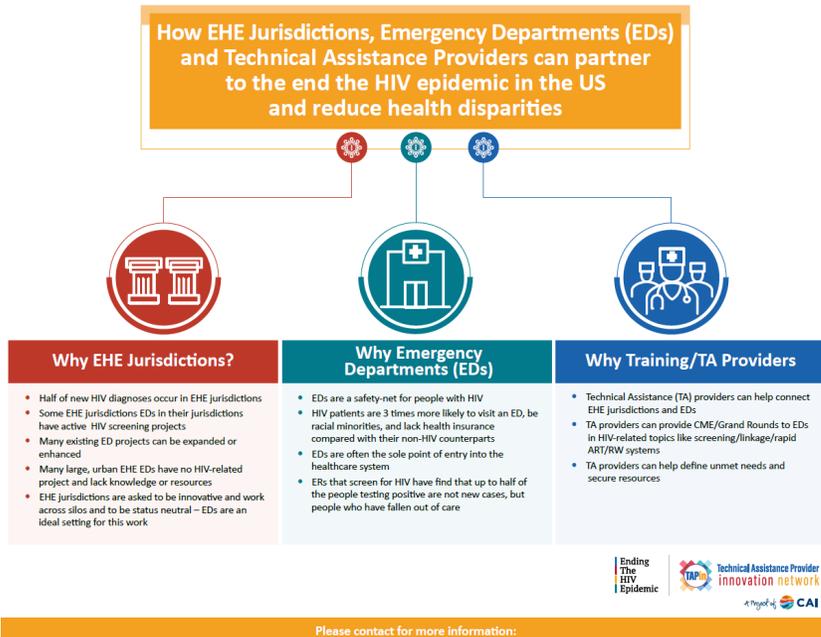
Ending the HIV Epidemic in Tarrant County: The Role of the JPS Emergency Department

Douglas White, MD
Highland Hospital, Alameda Health System

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A Project of CAD

TAP-in Plans: ED Infographic and Playbook



Panel Discussion

- Tom Donohoe (TAP-in)
- Dr. White (TAP-in)
- Dr. d'Etienne (JPS ED)
- Dr. Agovi (JPS ED)
- Lisa Muttiah (Tarrant County AA)



Question and Answer

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