Using Health Information Technology to Improve Chicago PWLHA Engagement-in-care

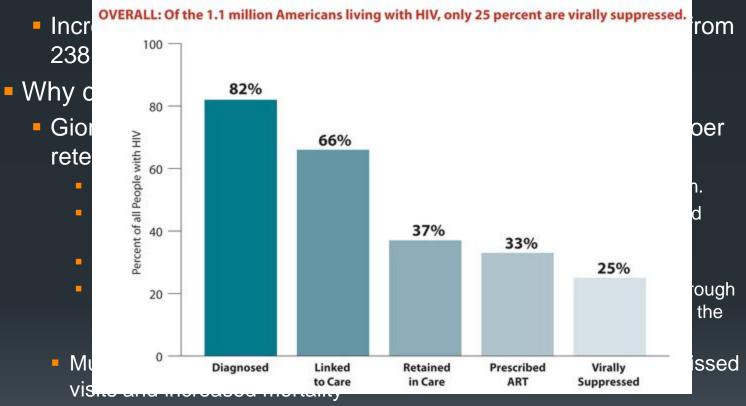
Ron Lubelchek, MD Chicago site CFAR HIV Treatment Cascade Supplement CFAR Continuum of Care (COC) Working Group Meeting – Day 2 February 4, 2014 Washington, D.C





Background

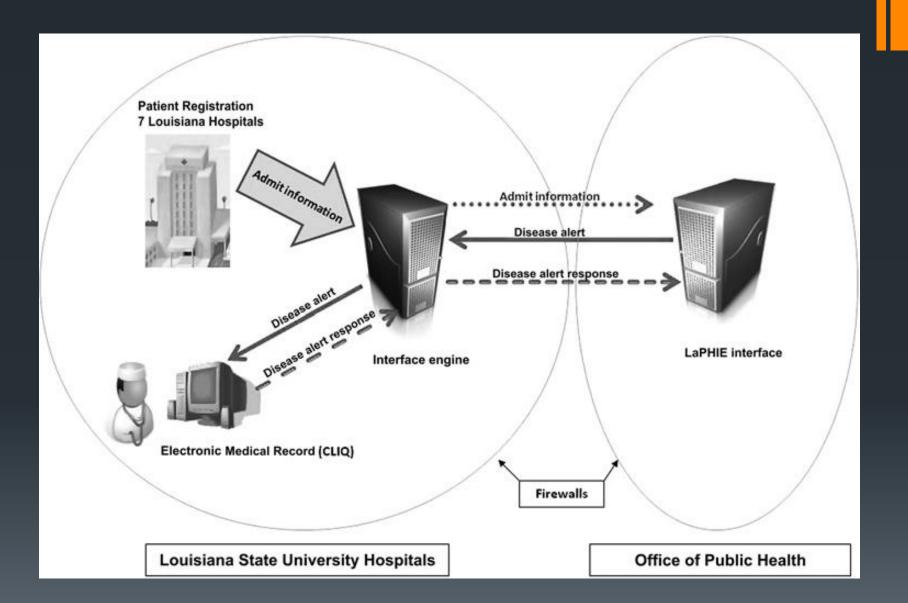
2015 NHAS HIV care cascade goals re: retention-in-care



- Looked at a cohort of > 500 patients for associations with mortality among these patients.
- On multivariate analysis patients who missed visits within the first year of initiating ARTx had an increased hazard ratio for death (HR 2.9, 1.28-6.56)

Can health information technology be used to improve retention-in-care for PLWHA?

- The Louisiana Public Health Information Exchange (LaPHIE) demonstrated how HIT can be used to improve engagementin-care outcomes for PLWHA
- LaPHIE represents a partnership between the Louisiana Office of Public Health (OPH) and the LSU Health Care Services Division (LSUHCSD) hospitals and clinics to identify PLWHA whom have not had CD4 and/or VL monitoring in > 12 months.
- Via bi-directional sharing of data between the OPH and LSUHCSD facilities, LaPHIE was able to send real-time prompts to non-HIV providers seeing PLWHA who had no lab monitoring.
 - The system also employed real time clinical decision support prompts on how to link those patients with care.
 - 82% of those identified by the LaPHIE prompt had follow-up CD4/VL monitoring in the subsequent 18 month study period.

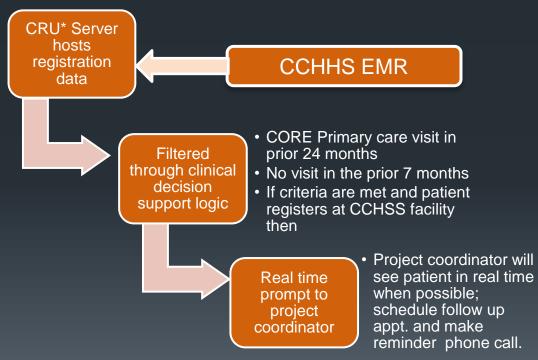


Cook County Health and Hospitals System (CCHHS)

- CCHHS provides safety-net medical care to approximately 500,000 unique individuals in the Chicago area annually
- Includes 2 acute care hospitals, several urgent care clinics, 16 ambulatory primary care clinics, and hospital-based outpatient specialty care services
- The John H. Stroger, Jr Hospital of Cook County Emergency Department experiences around 150,000 patient visits annually (around 80,000 unique patients)
- The Ruth M. Rothstein CORE Center provides HIV primary care to approximately 5500 PLWHA annually

HIV Tx Cascade supplement – Chicago site – Aim 1

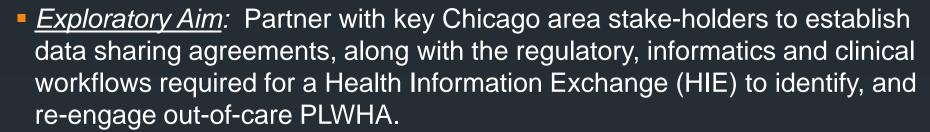
 Develop the data sharing infrastructure within the Cook County Health and Hospital System (CCHHS) that enables real-time identification of non-engaged HIV primary care patients presenting to CCHHS clinical sites.



HIV Tx Cascade supplement – Chicago site – Aim 2

- Assess how real time alerts used to prompt clinical providers at CCHHS Emergency Departments, urgent care and specialty care sites facilitate re-engagement for non-engaged HIV patients and how this EMR-prompt system compares with previous re-engagement strategies which relied on patient navigator-based outreach.
 - Assess number of patients for whom prompt triggers
 - Proportion re-engaged in care within 90 days of prompt-based intervention
 - Compare this approach with several other patient navigator/DISbased outreach programs
 - Compare numbers of out-of-care patients reached
 - Proportion re-engaged in care
 - Defined as visit within 90 days of prompt trigger vs. outreach effort
 - Assess costs per patient re-engaged with prompt vs. outreach-based interventions

HIV Tx Cascade supplement – Chicago site – Aim 3



Goal:

- Regulatory: How general consent for care needs to change in order to incorporate HIV diagnosis, visit, Rx and lab data in current data sharing efforts in a HIPAA compliant manner.
- Informatics: Determine technical capabilities and HIT upgrades needed to share data between clinical care entities, cloud, and DOH as required
- Clinical work flows: How to make use of data sharing
 - Examples:
 - How to use visit data to re-link to medical home
 - How to use Rx data to assess adherence to ARTx

Key aim 2 partners

- Medical Home Network
- Illinois Public Health Information Exchange
- CDPH
- IDPH
- AIDS Foundation of Chicago
- Cook County Health and Hospitals System

