

Public Health Innovation: Emerging Opportunities for Leveraging Health Systems Data

Amy Killelea, JD (NASTAD)
HIV Affinity Group Meeting
December 6, 2016



A Changing Healthcare Landscape Driving Public Health Program Change

Uninsured in the U.S.

■ % Uninsured



GALLUP-HEALTHWAYS WELL-BEING INDEX

A Changing Healthcare Landscape Driving Public Health Program Change

Public Health is Changing

PrEP and Treatment as Prevention necessitate new partnerships with clinical systems and payers

Medicaid is Changing

Medicaid is shifting attention to population health, covering more services that have typically been outside the realm of insurance

US Public Health Service

PREEXPOSURE PROPHYLAXIS FOR THE PREVENTION OF HIV INFECTION IN THE UNITED STATES - 2014

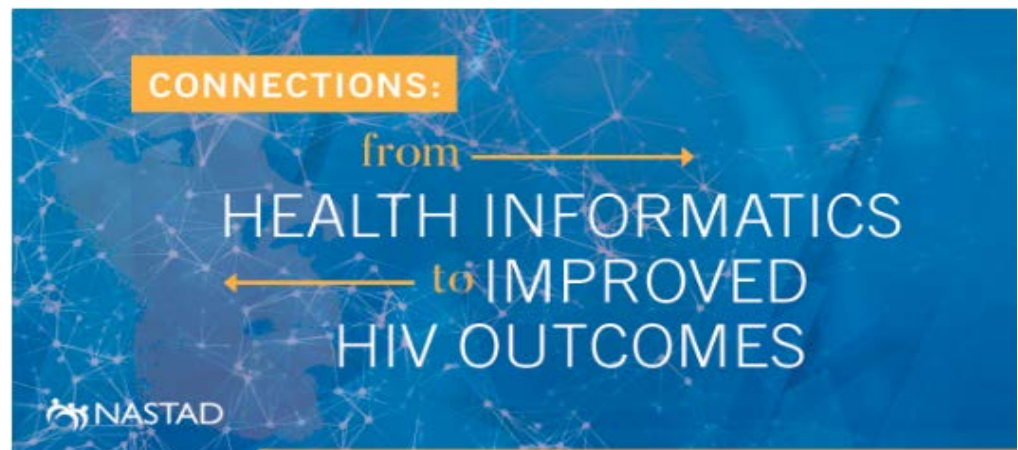
A CLINICAL PRACTICE GUIDELINE

Treatment as Prevention

The screenshot shows the CMS.gov website. The header includes the CMS.gov logo, a search bar, and navigation tabs for Medicare, Medicaid/CHIP, Medicare-Medicaid Coordination, Private Insurance, Innovation Center (selected), Regulations & Guidance, Research, Statistics, Data & Systems, and Outreach & Education. The main content area is titled "State Innovation Models Initiative: Round Two" and includes a "Share" button. Below the title, there is a paragraph of text: "The Innovation Center announced the recipients of Round Two State Innovation Models (SIM) Initiative Model Test & Design awards on December 16, 2014. Including the six SIM Round One Model Test states (Minnesota, Vermont, Massachusetts, Maine, Oregon and Arkansas) 38 total SIM awardees (including 34 states, three territories and the District of Columbia) will be working to support comprehensive state-based innovation in health system transformation." Below this text is a link for "State Innovation Models Initiative: Round Two Awards" and a note: "Select anywhere on the map below to view the interactive version". On the right side, there is a "Model Summary" box with the following details: "Stage: Announced", "Number of Participants: 32", "Category: Initiatives to Accelerate the Development and Testing of New Payment and Service Delivery Models", and "Authority: Section 3021 of the Affordable Care Act".

Health Systems Data for Public Health Action

- Emerging opportunities for health departments to leverage health systems and payer databases to better track service utilization:
 - Medicaid claims
 - All Payer Claims Databases
 - Health Information Exchanges
- NASTAD published a foundational resource on these emerging opportunities



Data Trifecta

Medicaid Claims

HIV surveillance cross match with Medicaid claims data to determine those out of care

Query Medicaid claims to determine service utilization

Pursue HIV quality improvement projects

All Payer Claims Database

HIV surveillance cross match with APCD data to determine those out of care

Query APCDs to determine service utilization

Query APCDs for aggregate data on PrEP uptake

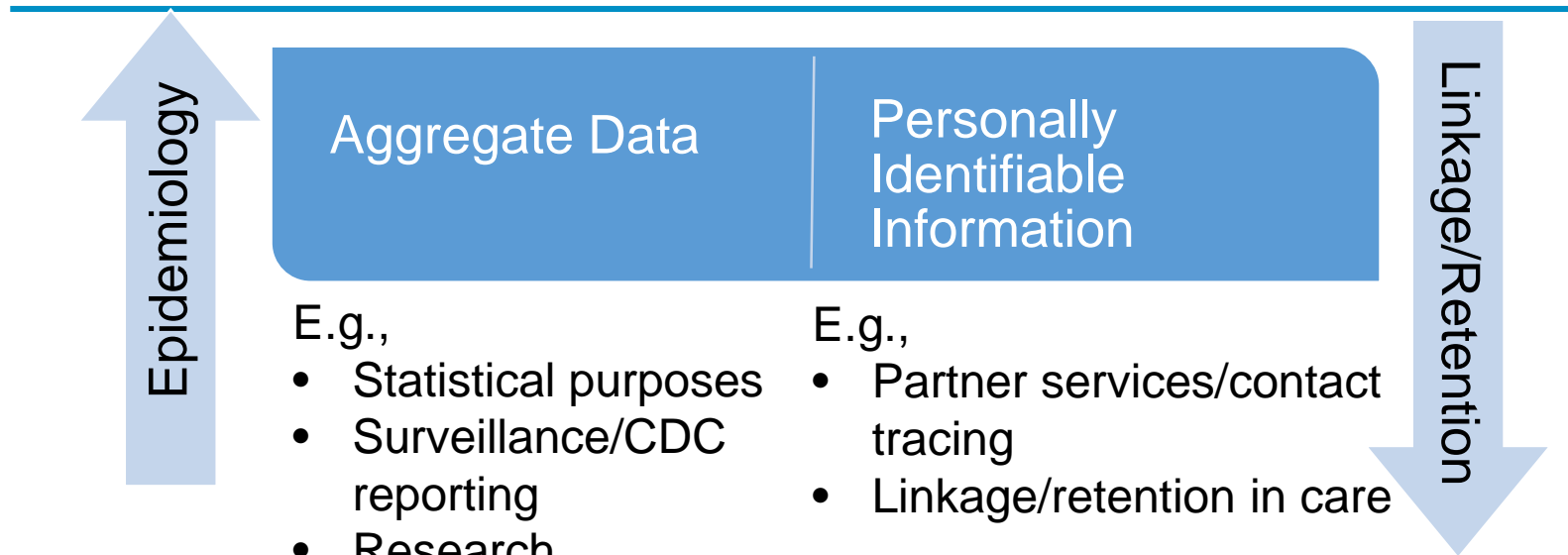
Health Information Exchanges

Query Electronic Health Record (EHR) hub for aggregate PrEP prescribing by provider and neighborhood

Query EHR data to track ED utilization of PEP

Query regional HIE to monitor HIV, STD, and VH care and prevention utilization

Data Uses: Aggregate vs. Personally Identifiable



Legal Protections for Personally Identifiable Information

- Enumerated allowable disclosures and use
- Data sharing agreements and protocols
- Data suppression rules
- Monetary penalties for confidentiality breaches
- Individual consent
- Inter-agency data sharing generally allowable; secondary disclosure to providers is more challenging

Foundation for Success

- State commitment to data modernization and infrastructure capacity
 - Functional All Payer Claims Databases and Health Information Exchanges and Medicaid commitment to data sharing
- Health department ability to leverage existing relationships and data sharing agreements
 - Long-standing ADAP data-sharing relationship with Medicaid for eligibility matches
- Health department staff capacity to take on a new and technically challenging area
- Health department commitment to working across HIV Care and Prevention and across infectious disease programs on health systems data efforts