# Data Divers: From Collection to Analysis Part 1

Jamie Black, MPH
Josh Dowell, MPH
Colin Stretch, MPA
Conner Tiffany, MPH

July 20th, 2021
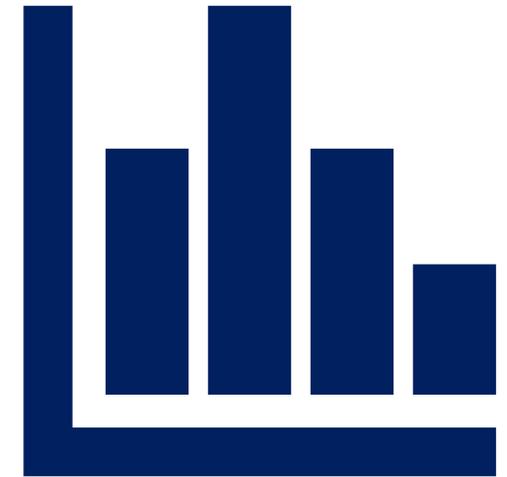
Data Divers Topics

Introduction to Data – July 20th

I have this Data: now what? – TBD August

Performance Measures – TBD September

HIV/STD/HEP Tableau Dashboard – TBD October

Putting All the Pieces into Practice – TBD November

Objectives

Introduce Content Planning Team / Presenters

Review Goal(s) for Training Series

- Set expectations for participants

Data Definitions

- Common Terms and Calculations
- Surveillance vs Services Data
- Priority Populations

Data Systems

- Surveillance Systems
- Services Systems
- Importance of defining data system

Conclusion and wrap up

Anti-stigma Language

Person-centered language

Importance of stigma reduction

Avoid terms such as:

- "Infected"
- "Addict"
- "Clean"
- "Risky" or "promiscuous"

For more resources, reach out to us

Data Definitions

Rate

- CDC (2012): A rate is a measure of the frequency with which an event occurs in a defined population over a specified period of time.

- How do we calculate?

- When do we calculate a rate vs a percentage?

- What does a rate tell us?

Prevalence

CDC (2012): Prevalence is the proportion of persons within a defined population who have a particular attribute (disease state, diagnosis, etc.) at a specific point in time or over a specified period of time.

How do we calculate prevalence?

What does this information tell us?

Incidence

CDC (2012): Incidence is **the proportion of** an initially disease-free population that develop an attribute (disease, injury, die) during a specific period of time.
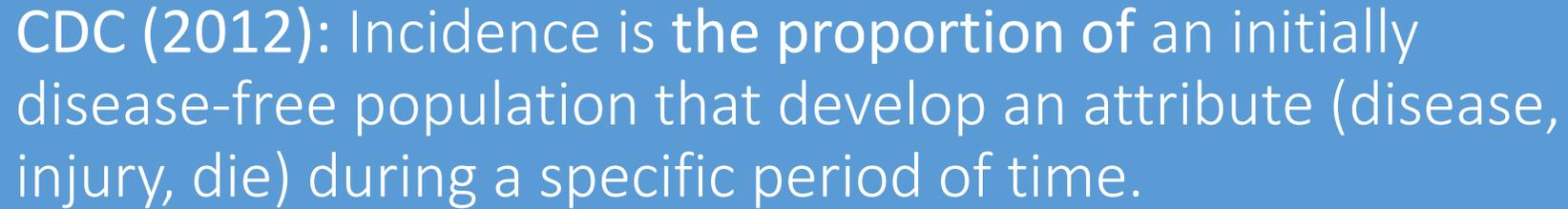
How do **we calculate** incidence?

What does this information tell us?
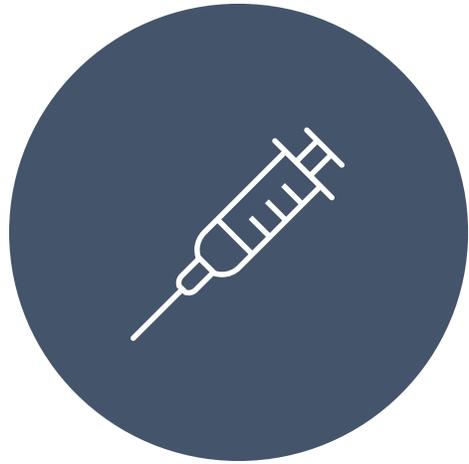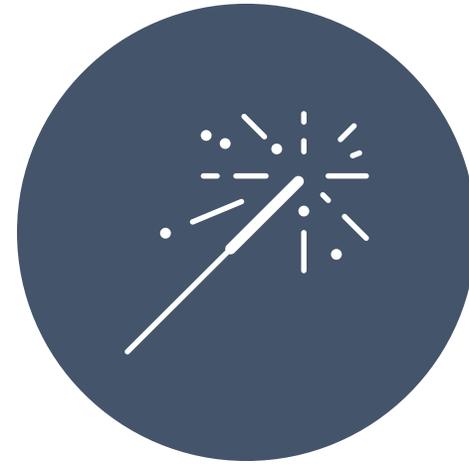
VIRAL SUPPRESSION   UNDETECTABLE

Retention in medical care

Retention in nonmedical care
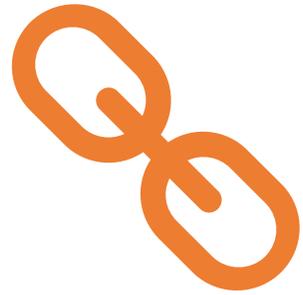
Linkage to care:
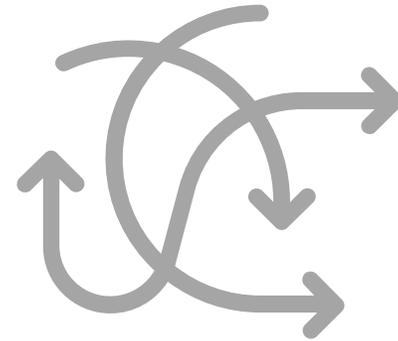
Lost to care:

Priority Population

Definition: a group of individuals that are prioritized to receive an intervention due to their perceived heightened risk to an event of interest (infection, disease) at or during a period of time.

Why to use this instead of target/risk population

Where does the data come from?

Surveillance vs. Services Data
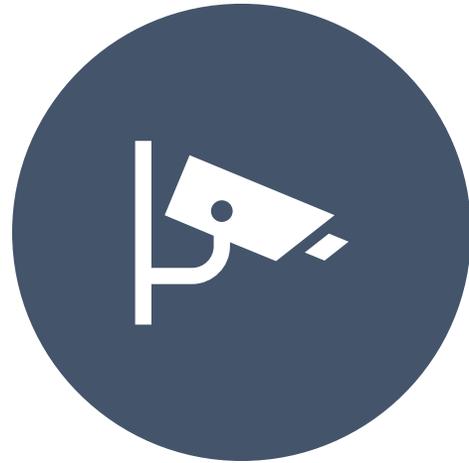
SURVEILLANCE DATA

SERVICES DATA

HIV/STD/HEP Data Systems

 SSP: HIV/HCV Prevention

 APHIRM: State Funded HIV/HEP Testing
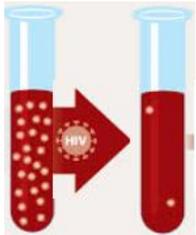
 eHARS: HIV Surveillance
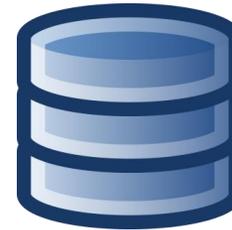
 NORA: Prevention Program Data & Resources

 SWIMSS/NBS: STD/HEP Reporting

 CareWare: HIV Services Data

eHARS
Enhanced HIV/AIDs Reporting System

- Database used to report HIV data to CDC
  - Diagnosis date, CD4/viral load labs
  - Demographics for all people diagnosed with HIV
    - Race, gender, age, geographic distribution, risk factor

- Fueled by electronic lab reports (ELR)
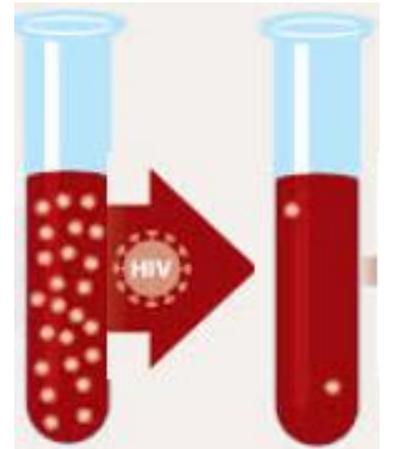
NBS
National Electronic Disease Surveillance System Based System

- Reporting database for STD/HEP
  - New cases, treatments, demographics

- Disease Investigations
  - Partner Information, Risk Factors, Prevention Behaviors

- Driven by ELR, hand-entered morbidity reports, and Investigations

STD Reportable Conditions with Contact Tracing

Chlamydia

Gonorrhea

Syphilis

Reportable Hepatitis Information

	Hepatitis B	Hepatitis C
Reportable Positive Results	• Hepatitis B Surface Antigen (HBsAg) • Hepatitis B DNA (HBV DNA) • Hepatitis B Core Antibody IGM	• Hepatitis C Antibody • Hepatitis C RNA/PCR NAT • Hepatitis C Genotype
Reportable Conditions	• Hepatitis, viral, type B • Hepatitis, viral, type B, pregnant individual or perinatally exposed infant	• Hepatitis, viral, type C (acute)
Additional results helpful for case classification	• Hepatitis B e Antigen (HBeAg) • Hepatitis B Genotype • Negative: HBV DNA, Hepatitis B Core Antibody IGM, reflex/confirmatory HBsAg results where initial screening was positive	• Negative: HCV RNA, reflex/confirmatory HCV Antibody results were there was an initial screening positive

CAREWare

- Client level service data from Agencies funded from Service Program
  - Utilization of services and sub-services
  - Case notes

- Supported by hand-entered Agency data

CaseManager is being archived

APHIRM

- Data on State-Funded HIV tests
  - New Positive HIV Tests, Positivity Rate, Testing Demographics
  - Includes **only** state-funded tests

- Sustained by hand-entered HIV testing data from state-funded entities

NORA
Names, Organizations, Resources, and Analysis

- Program data for all Prevention funded agencies

- Employee management
  - Onboarding and offboarding of new employees

- Resources for external partners

- Visualization of programmatic data
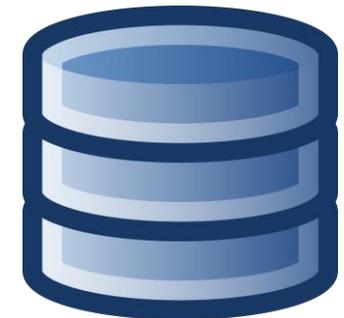
Contact Information

Jamie Black, MPH: JamBlack@isdh.IN.gov

Josh Dowell, MPH: JDowell@isdh.IN.gov

Colin Stretch, MPA: CStretch@isdh.IN.gov

Conner Tiffany, MPH: CTiffany@isdh.IN.gov

Up next on Data Divers...

I have this Data: now what? (TBD August)

- Care Continuum for HIV/STD/HEP
- Data Cleaning
  - Who does it?
- What is Data Analysis?
  - Calming analysis nerves