HIV Behavioral Surveillance in the Baltimore-Columbia-Towson Metropolitan Area HIV Behavioral Surveillance Community Meeting June 28, 2019

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# **MISSION AND VISION**

#### **MISSION**

The mission of the Prevention and Health Promotion Administration is to protect, promote and improve the health and well-being of all Marylanders and their families through provision of public health leadership and through community-based public health efforts in partnership with local health departments, providers, community based organizations, and public and private sector agencies, giving special attention to at-risk and vulnerable populations.

#### **VISION**

The Prevention and Health Promotion Administration envisions a future in which all Marylanders and their families enjoy optimal health and well-being.



## Definition

Behavioral surveillance, for public health purposes, is the systematic and ongoing collection of data about risk and health-related behaviors with the purpose of correlating trends in behaviors with changes in disease over time.

-Lansky, et al. Public Health Reports, 2007.



## National HIV Behavioral Surveillance (NHBS)

- CDC funded project
- Data collection began in 2004
- In up to 25 metropolitan areas (has varied over time)
- Major divisions of metropolitan areas with the greatest numbers of AIDS cases in the U.S.



#### **NHBS Sites**



## National HIV Behavioral Surveillance (NHBS)

- Funded nationally by the CDC
- Funded locally by MDH
- 2019 Year 4 of the current 5 year cooperative agreement
- Application for new 5 year funding cycle due in August 2020



#### NHBS – Baltimore

- MDH contract with Johns Hopkins Bloomberg School of Public Health for field operations
  - Dept. of Epidemiology: Frank Sifakis, David Celentano
  - Dept. of Health, Behavior and Society: Danielle German, David Holtgrave
- Collaborative project of CDC, MDH, and JHU



#### NHBS – Baltimore – BESURE

The **BEhavioral SUrveillance** REsearch **Study** 



## **NHBS** Objectives

- To assess prevalence of and trends in
  - HIV risk behaviors
  - HIV testing behaviors
  - Exposure to and use of prevention services among persons at high risk for infection
  - HIV prevalence and incidence



## Case vs. Behavioral Surveillance

#### **Case Surveillance**

- Infected population
- HIV positives
- Mandated reporting
- Data abstracted from medical records
- All diagnosed cases (N≅30,000 in Maryland)
- Dozens of demographic and clinical variables

#### **Behavioral Surveillance**

- Population at risk
- HIV negatives and positives
- Research study
- Data from participant interviews and blood tests
- 500 sampled participants per population per year
- Hundreds of behavioral variables

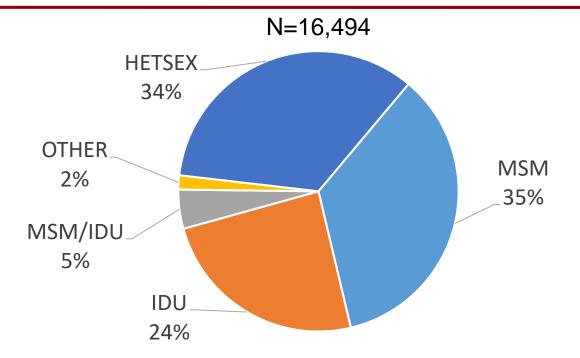


## **NHBS Target Populations**

- Men who have sex with men (MSM)
- Injection drug users (IDU)
- Heterosexuals at risk for HIV (HET)



#### Living Adult/Adolescent HIV Cases on 12/31/17, by Exposure Category, Baltimore-Columbia-Towson MSA



Using data as reported through 6/30/2018

12

Multiple imputation was used to estimate and adjust for missing exposure category.



#### **NHBS** Recruitment Methods

Venue-based sampling (VBS)

• Respondent-driven sampling (RDS)



## **NHBS** Cycles

	MSM	IDU	HET
Wave 1	VBS	RDS	VBS and RDS
	2004-2005	2006	2007
Wave 2	VBS	RDS	RDS
	2008	2009	2010
Wave 3	VBS	RDS	RDS
	2011	2012	2013
Wave 4	VBS	RDS	RDS
	2014	2015	2016
Wave 5	VBS	RDS	RDS
	2017	2018	2019



## NHBS Data Reports

- MMWR and other CDC publications
- Journal articles
- Conference presentations
- Planning group presentations
- MSM/SGL Response Team presentations
- MDH website





#### Maryland Department of Health **Prevention and Health Promotion Administration**

https://phpa.health.maryland.gov/OIDEOR/CHSE

"Behavioral Surveillance"

https://phpa.health.maryland.gov

