



HIV in the Baltimore-Columbia-Towson Metropolitan Statistical Area

Colin Flynn, ScM

Chief, Center for HIV Surveillance, Epidemiology and Evaluation

May 16, 2023

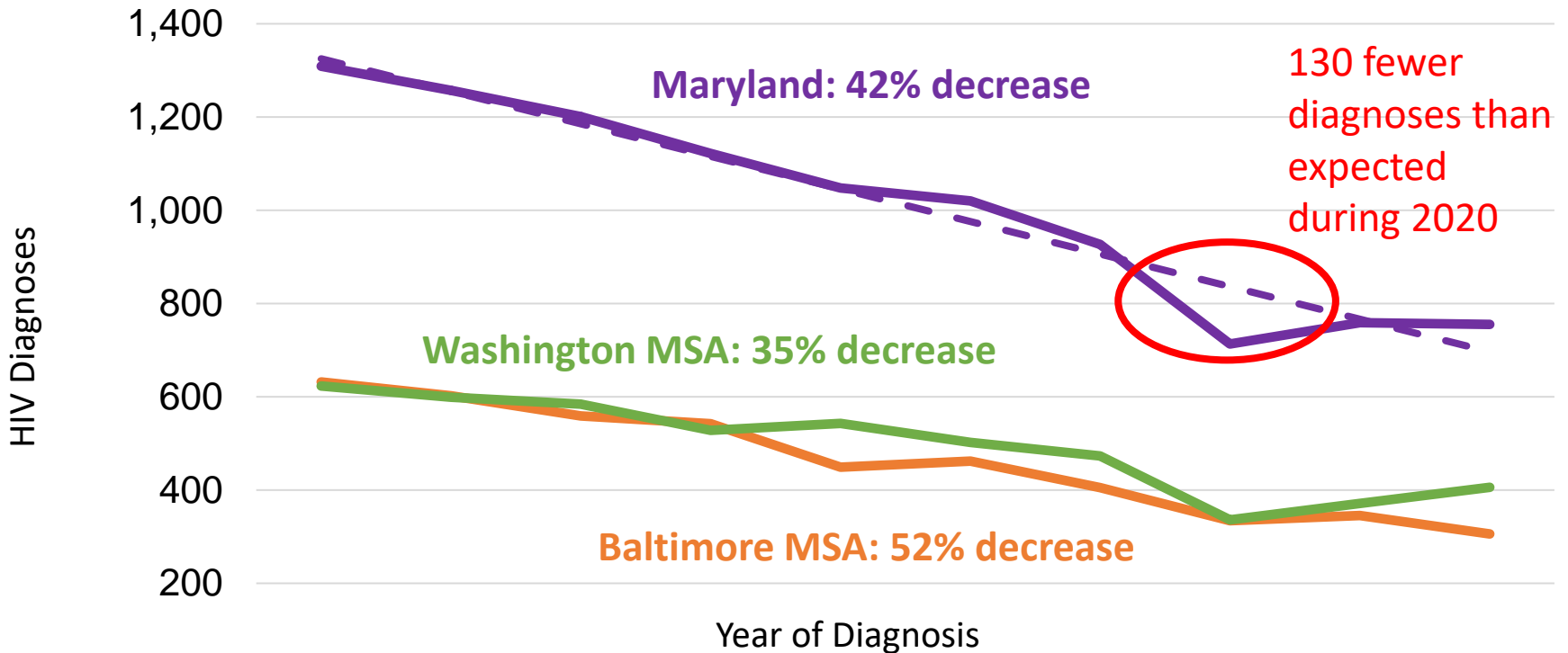
HIV Surveillance Data

- Reports by healthcare providers and laboratories
- Investigated by state and local health departments
- Deduplicated with other states (3/5 new cases are migrants)

- Use residence at diagnosis for new diagnoses
- Use current residence for PLWH

- 2021 data as reported through June 30, 2022
- Baltimore MSA
 - New HIV diagnoses during 2021: 345
 - PLWH on 12/31/2021: 17,262

HIV Diagnosis Trends



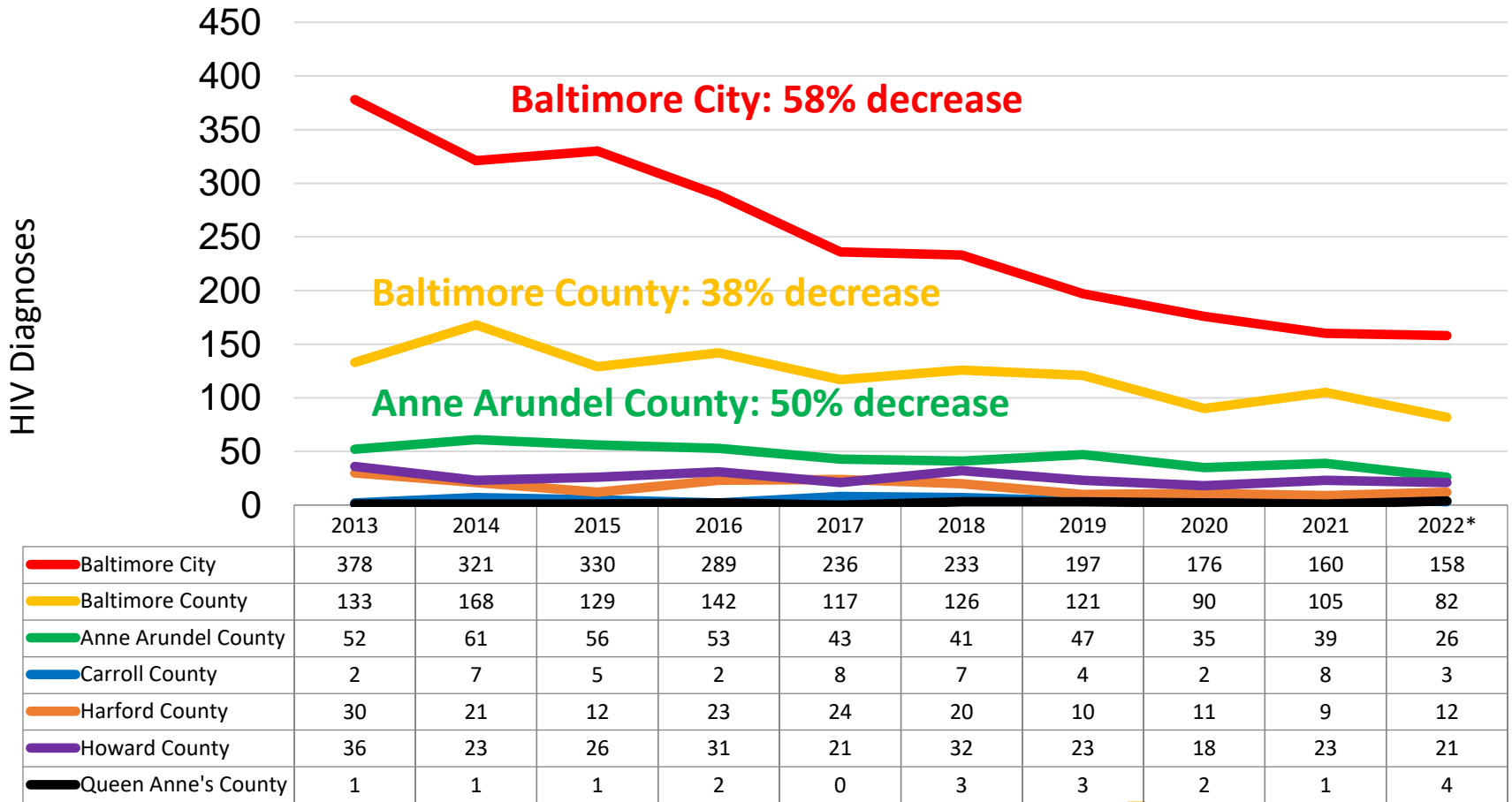
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022*
Maryland	1,309	1,257	1,201	1,122	1,048	1,020	927	713	759	755
Baltimore MSA	632	602	559	542	449	462	405	334	345	306
Washington MSA	623	599	584	528	543	502	473	336	371	406



Data are as reported through 4/30/2023.

*2022 is preliminary.

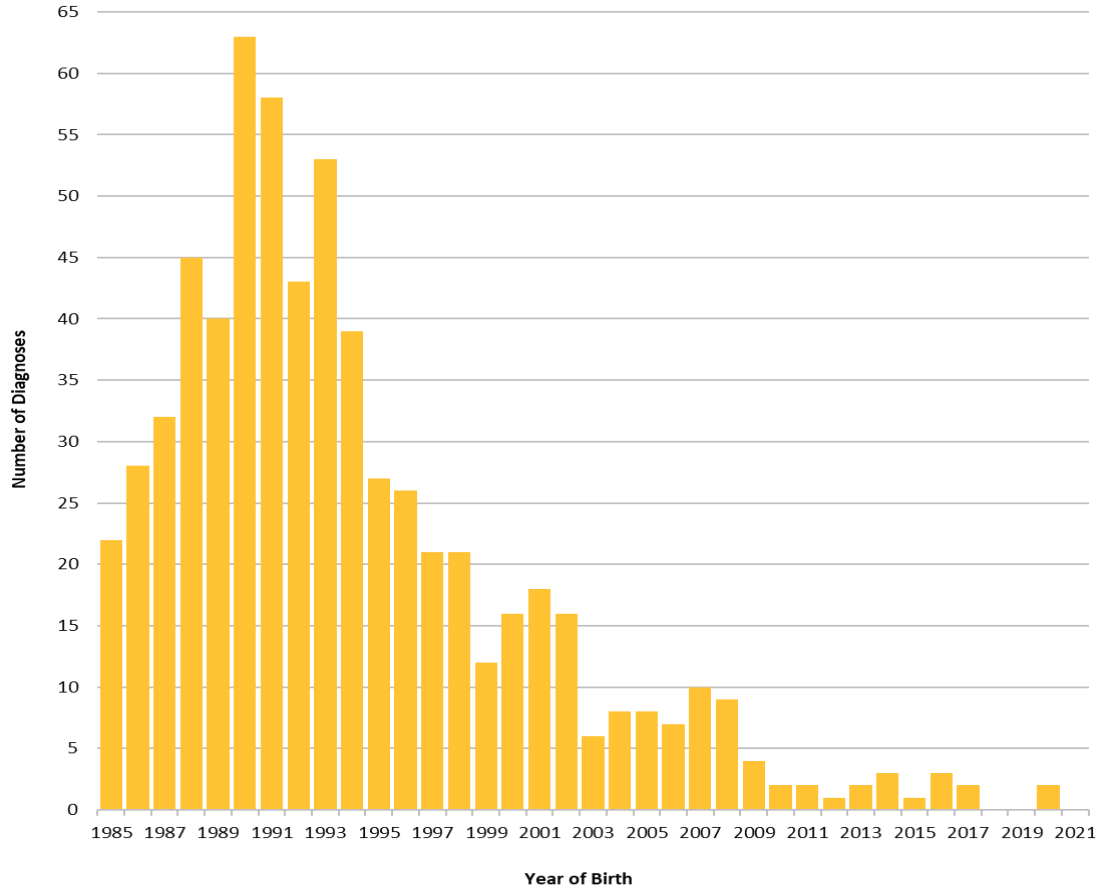
HIV Diagnosis Trends



Data as reported through 4/30/2023.
 *2022 is preliminary.

Perinatal HIV Transmissions

Pediatric Reported HIV Diagnoses



2016-2020

6 transmissions

2021

156 exposures

0 transmissions

Six New Transmissions Identified Since July

- Five confirmed transmissions in babies born in 2022
- One confirmed transmission in a young child born several years earlier (2015)
- Born in four jurisdictions across Maryland
 - Baltimore City (3)
 - Baltimore County
 - Montgomery County
 - Wicomico County
- Late or inadequate prenatal care with little to no antiretroviral treatment during pregnancy

HIV Diagnoses during 2019 – Ranked by Rates

Rank	Metropolitan Area	Reported Cases	Rate per 100,000
1	Miami-Fort Lauderdale-West Palm Beach, FL	1,984	32.2
2	Atlanta-Sandy Springs-Roswell, GA	1,661	27.6
3	Orlando-Kissimmee-Sanford, FL	654	25.1
4	Baton Rouge, LA	201	23.5
5	Memphis, TN-MS-AR	310	23.0
6	New Orleans-Metairie, LA	282	22.2
7	Jackson, MS	125	21.0
8	Jacksonville, FL	317	20.3
9	Houston-The Woodlands-Sugar Land, TX	1,436	20.3
10	Bakersfield, CA	179	19.9
21	Washington-Arlington-Alexandria, DC-VA-MD-WV	922	14.7
25	Baltimore-Columbia-Towson, MD	405	14.5
37	Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	774	12.7
	United States*	36,781	11.1

CDC. HIV Surveillance Report, 2019. Vol. 32. Table 22

* 50 states, DC & PR

Living HIV Diagnoses, Year-end 2019 – Ranked by Rates

Rank	Metropolitan Area	Reported Cases	Rate per 100,000
1	Miami-Fort Lauderdale-West Palm Beach, FL	54,492	883.7
2	New York-Newark-Jersey City, NY-NJ-PA	137,245	714.2
3	New Orleans-Metairie, LA	8,141	640.8
4	Atlanta-Sandy Springs-Roswell, GA	38,445	638.6
5	Baton Rouge, LA	5,259	615.2
6	Baltimore-Columbia-Towson, MD	16,492	589.0
7	Jackson, MS	3,425	575.8
8	Washington-Arlington-Alexandria, DC-VA-MD-WV	35,006	557.4
9	Memphis, TN-MS-AR	7,332	544.7
10	Columbia, SC	4,212	502.4
16	Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	26,606	436.0
	United States*	1,060,816	320.1

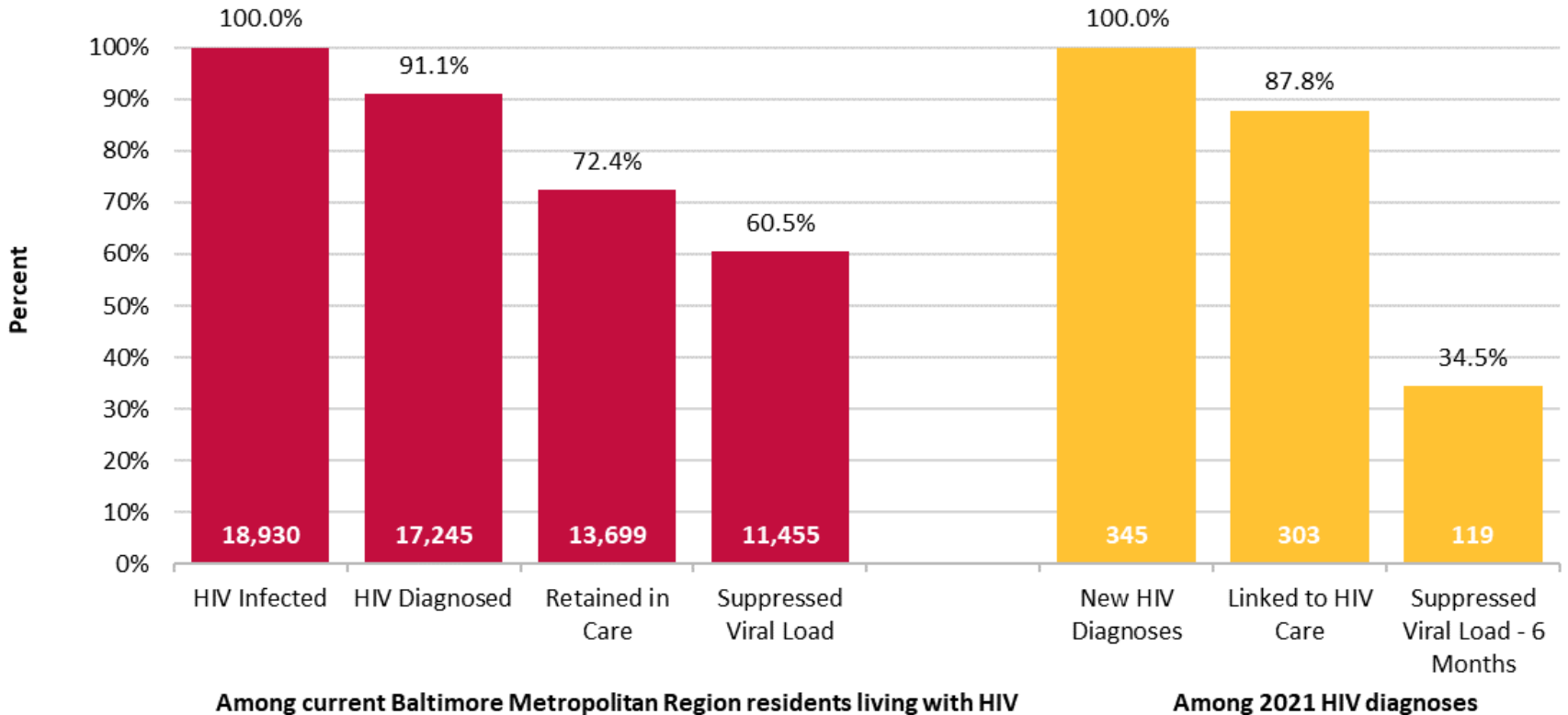
CDC. HIV Surveillance Report, 2019. Vol. 32. Table 23

8 * 50 states, DC & PR



2021 Continuum of Care

Prevalence-Based Estimated HIV Continuum of Care Among People Aged 13+, 2021



Mpox in Maryland

Maryland Mpox Summary

Total Individuals Vaccinated
9847

Total Positive Cases
746

Deaths
3

MDH Dashboard, as of 5/5/2023

Cases are:

- 95% male
- 72% 20-39 years old
- 62% Black
- 13% Hispanic

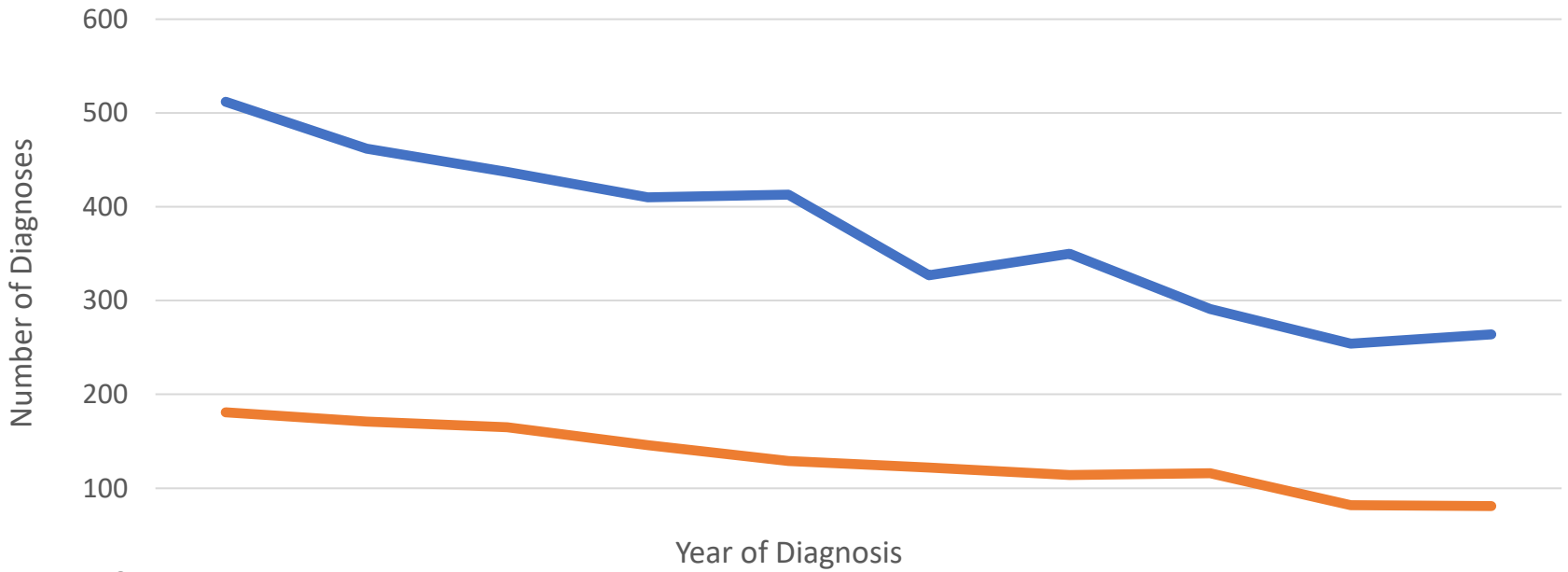
- 32% Baltimore City
- 31% Prince George's County

HIV and Mpox

- Sexual transmission of mpox among gay, bisexual, and same gender loving men
- Immune suppression increases risk for mpox infection and of severity of mpox disease
- Existing high rates of HIV among GBSGL men in Maryland (up to 50% HIV+ among Black MSM)
- High rates of new mpox infections among men with HIV (approx. 50% of mpox cases are HIV+ in Maryland)
- Mpox is taking advantage of high rates of HIV, undiagnosed HIV, and unsuppressed viral load among Black GBSGL men
- Mpox vaccination is effective at preventing infection and illness

HIV Diagnosis Sex at Birth Trends

Number of HIV Diagnoses by Sex at Birth and Year of Diagnosis, Baltimore MSA 2012-2021

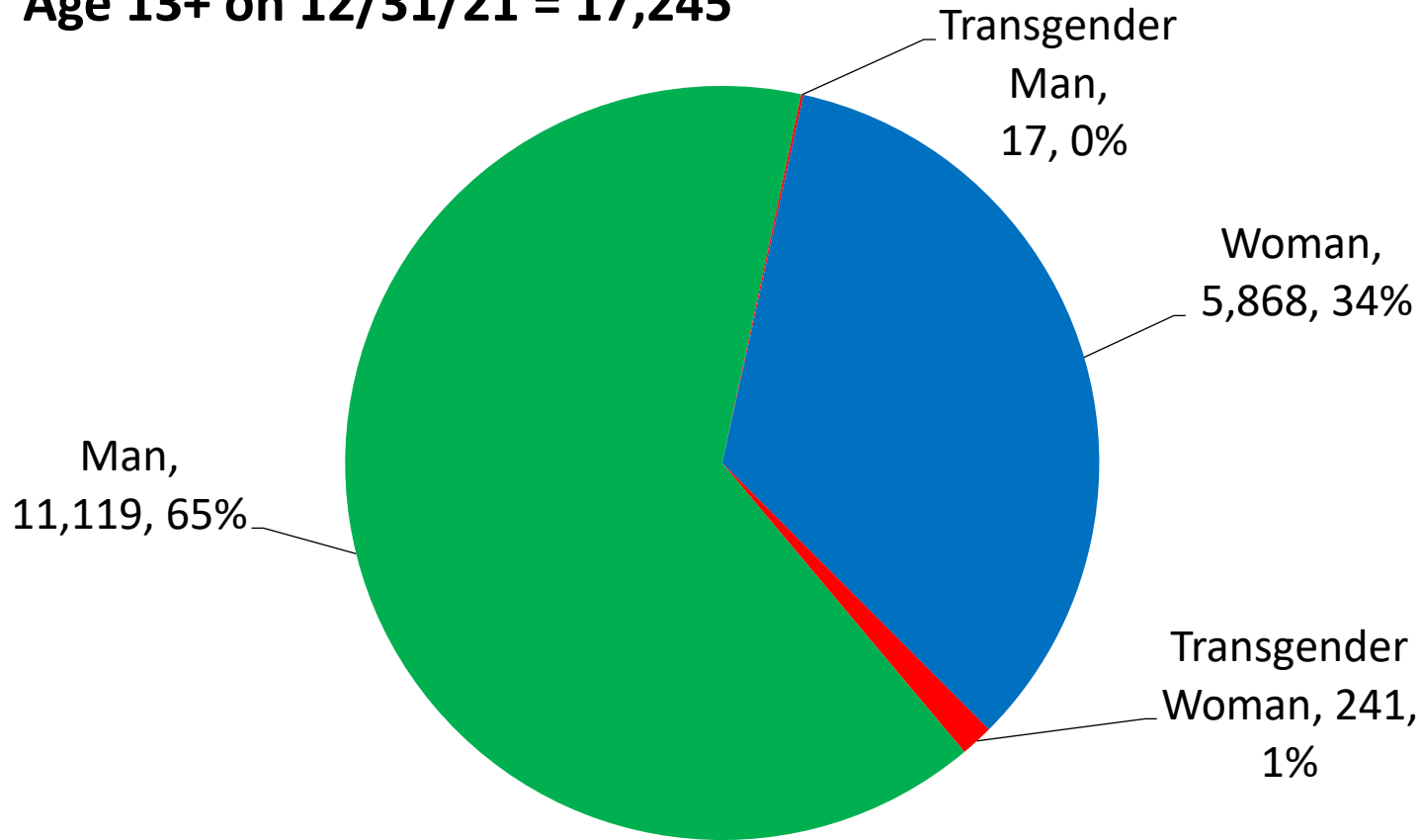


	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Male	512	462	437	410	413	327	350	291	254	264
Female	181	171	165	146	129	122	114	116	82	81



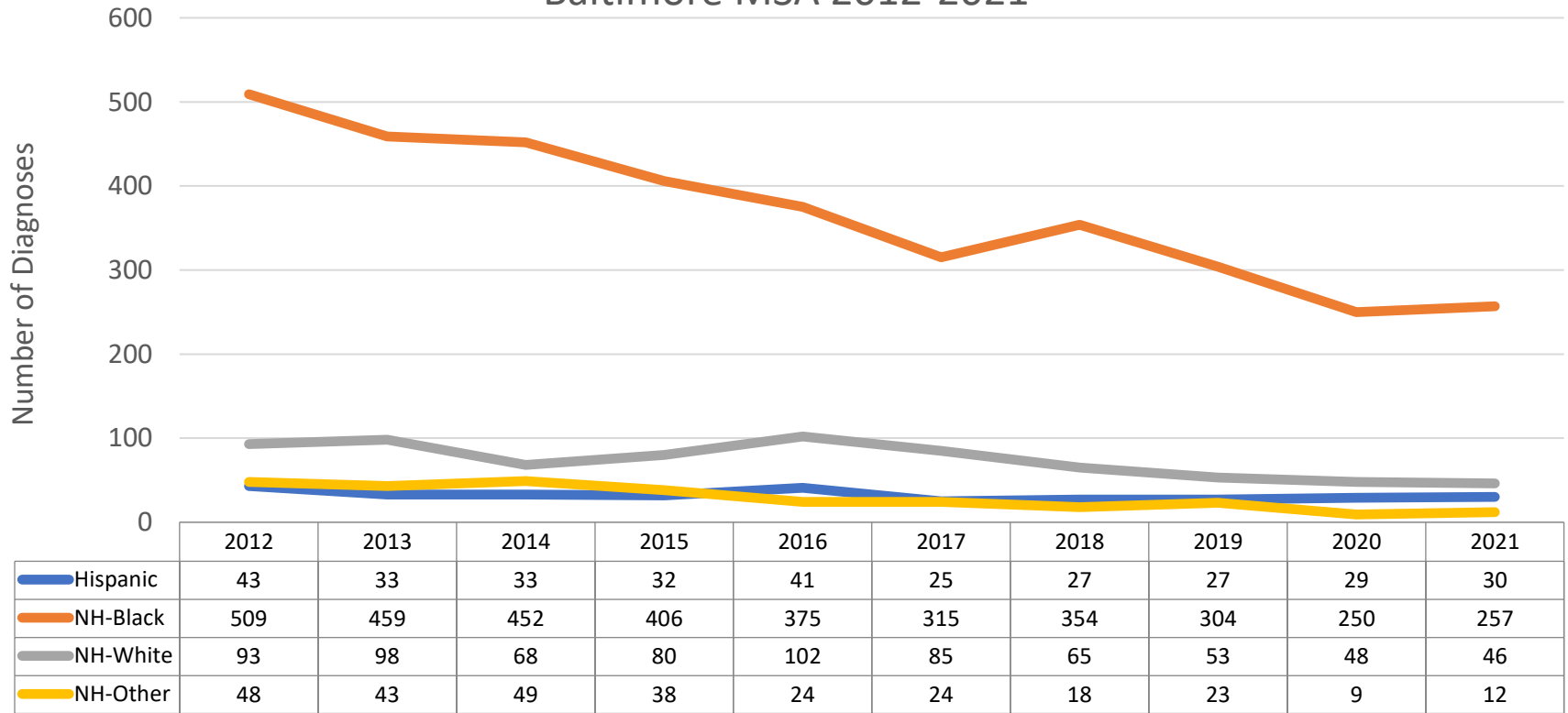
People Living with HIV by Gender

Age 13+ on 12/31/21 = 17,245



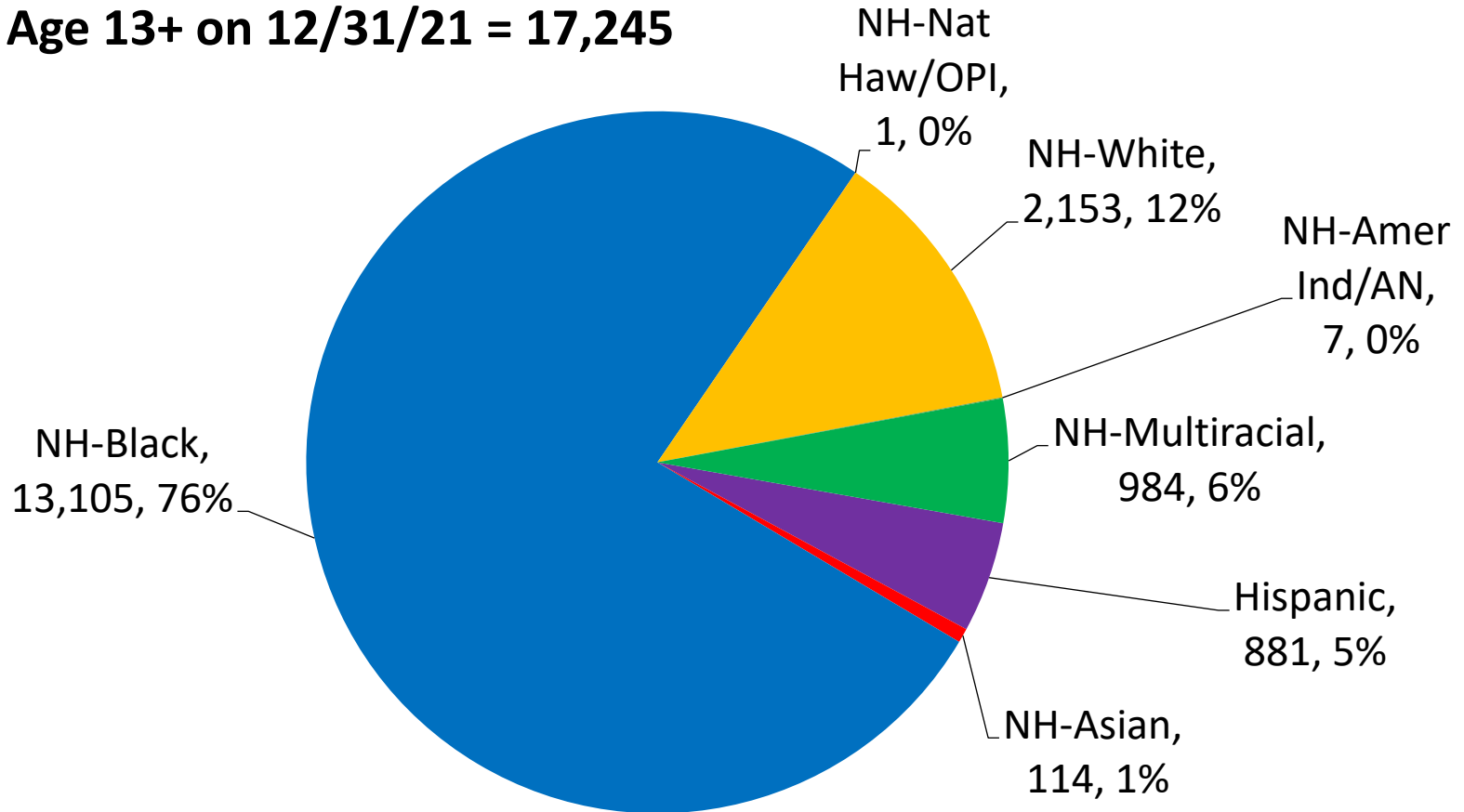
HIV Diagnosis Race/Ethnicity Trends

Number of HIV Diagnoses by Race/Ethnicity and Year of Diagnosis, Baltimore MSA 2012-2021



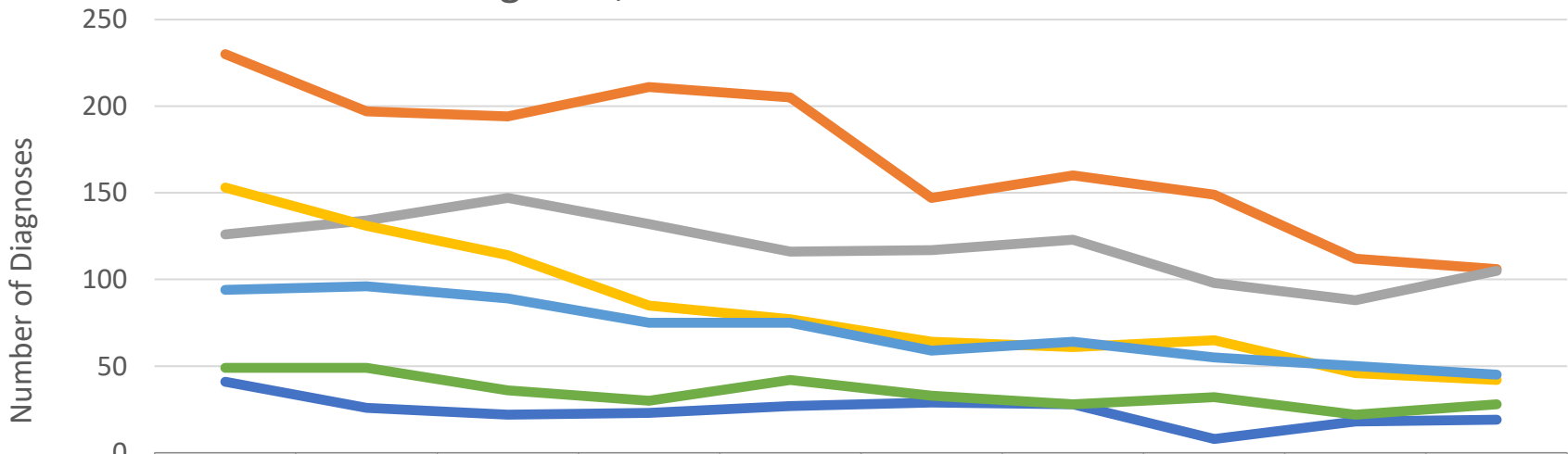
People Living with HIV by Race/Ethnicity

Age 13+ on 12/31/21 = 17,245



HIV Diagnosis Age Trends

Number of HIV Diagnoses by Age at Diagnosis and Year of Diagnosis, Baltimore MSA 2012-2021

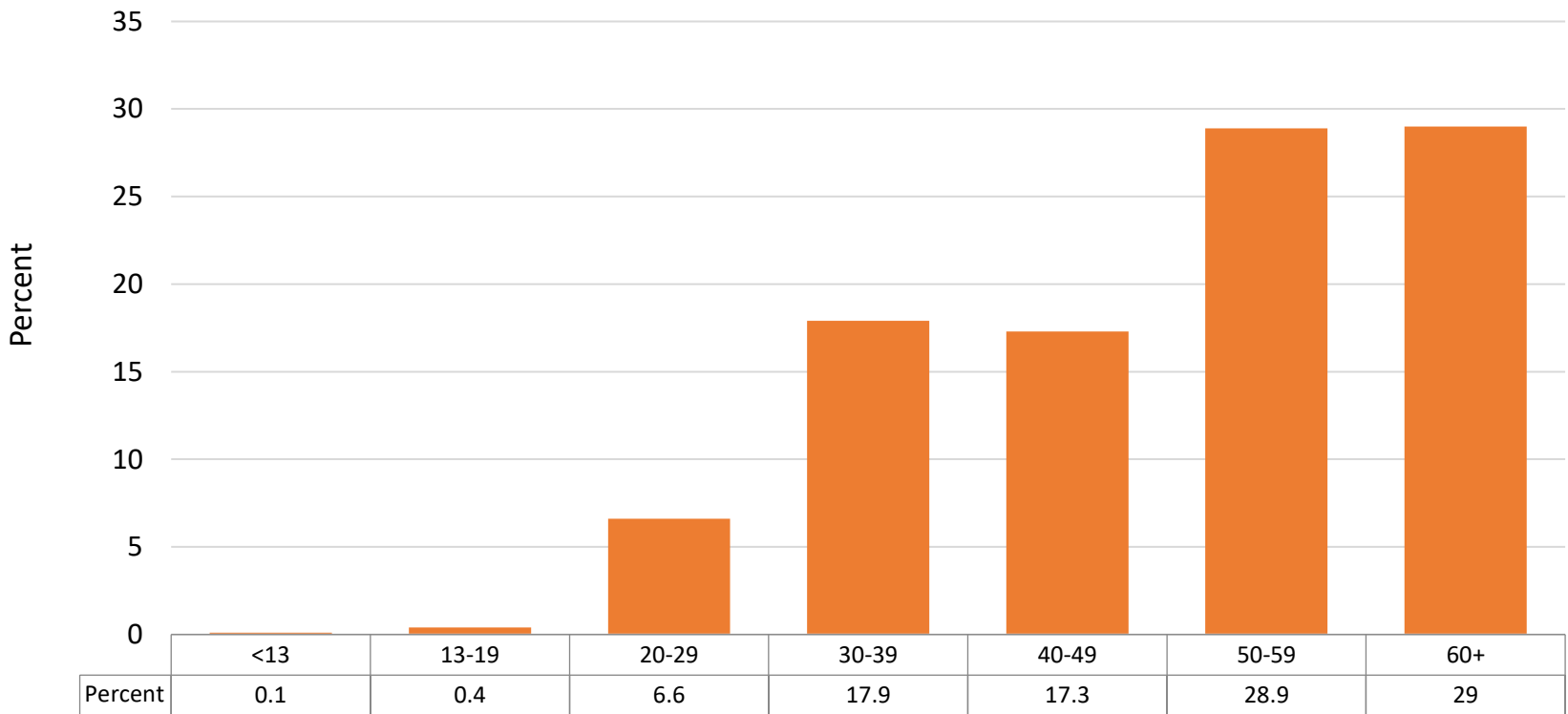


	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
13-19	41	26	22	23	27	29	28	8	18	19
20-29	230	197	194	211	205	147	160	149	112	106
30-39	126	134	147	132	116	117	123	98	88	105
40-49	153	131	114	85	77	64	61	65	46	42
50-59	94	96	89	75	75	59	64	55	50	45
60+	49	49	36	30	42	33	28	32	22	28



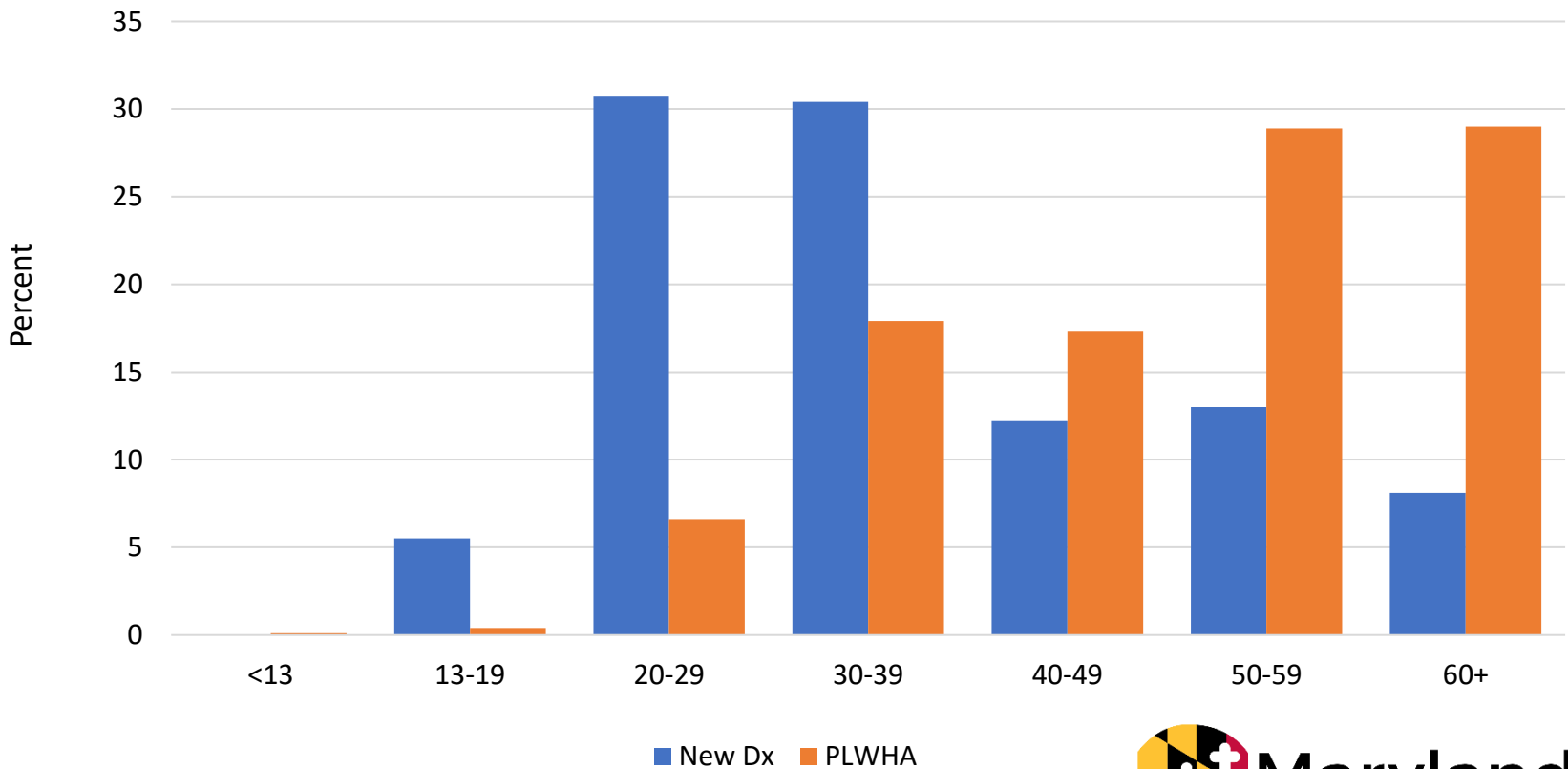
People Living with HIV by Current Age

Persons Living with Diagnosed HIV or AIDS on 12/31/2021,
Percent Distribution by Age Group, N=17,262



Age at Diagnosis vs. Current Age

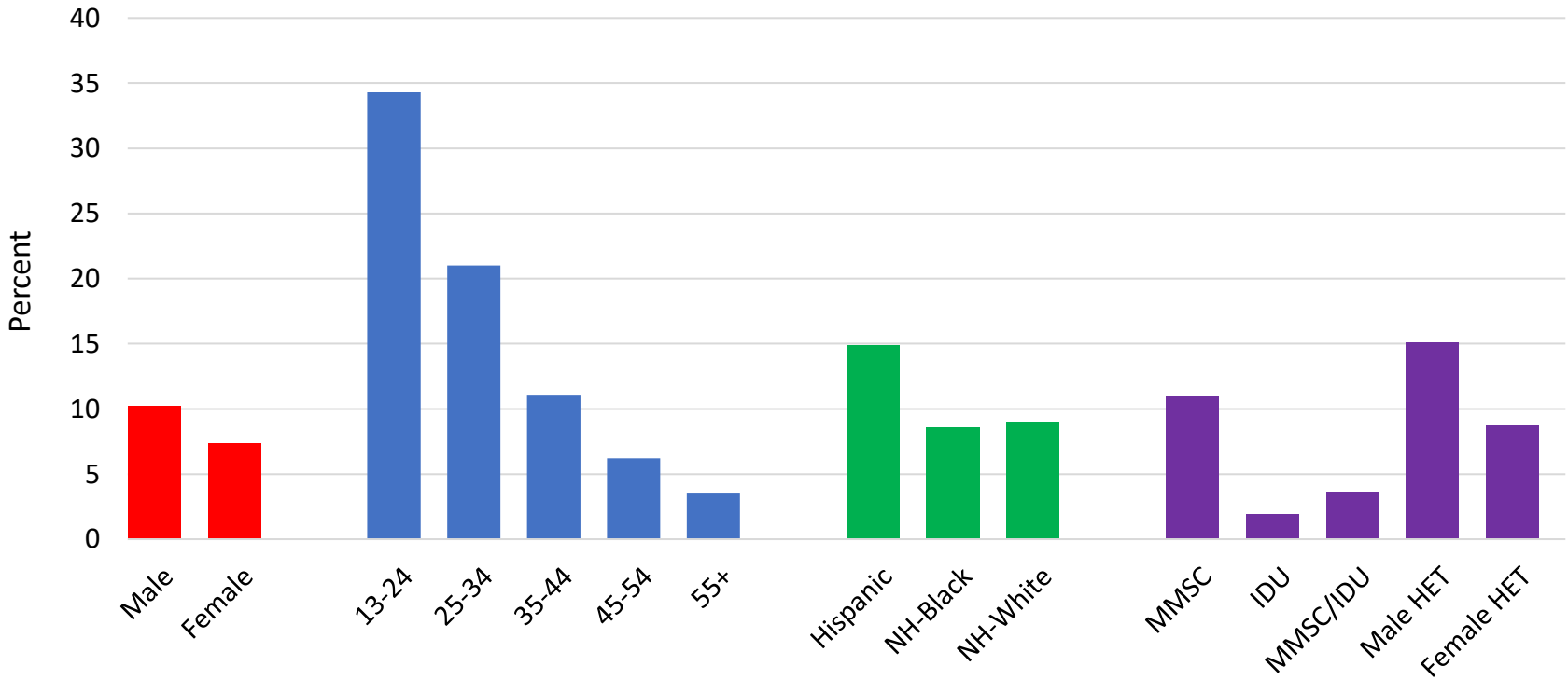
Age at Diagnosis of New 2021 HIV Diagnoses versus Age on 12/31/2021 of Persons Living with Diagnosed HIV or AIDS



Estimated Percent Undiagnosed

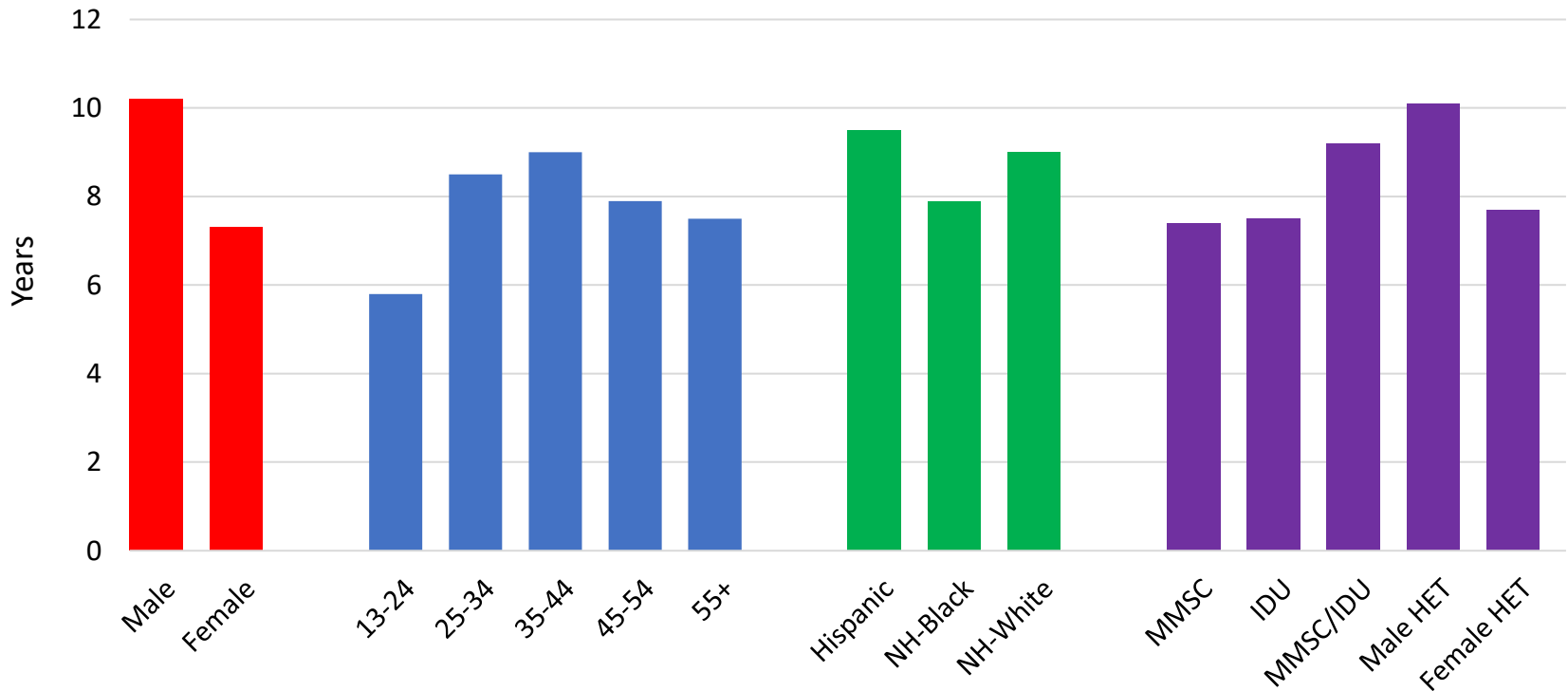
Estimated Percent HIV Undiagnosed, Maryland, 2020

Total = 9.2%



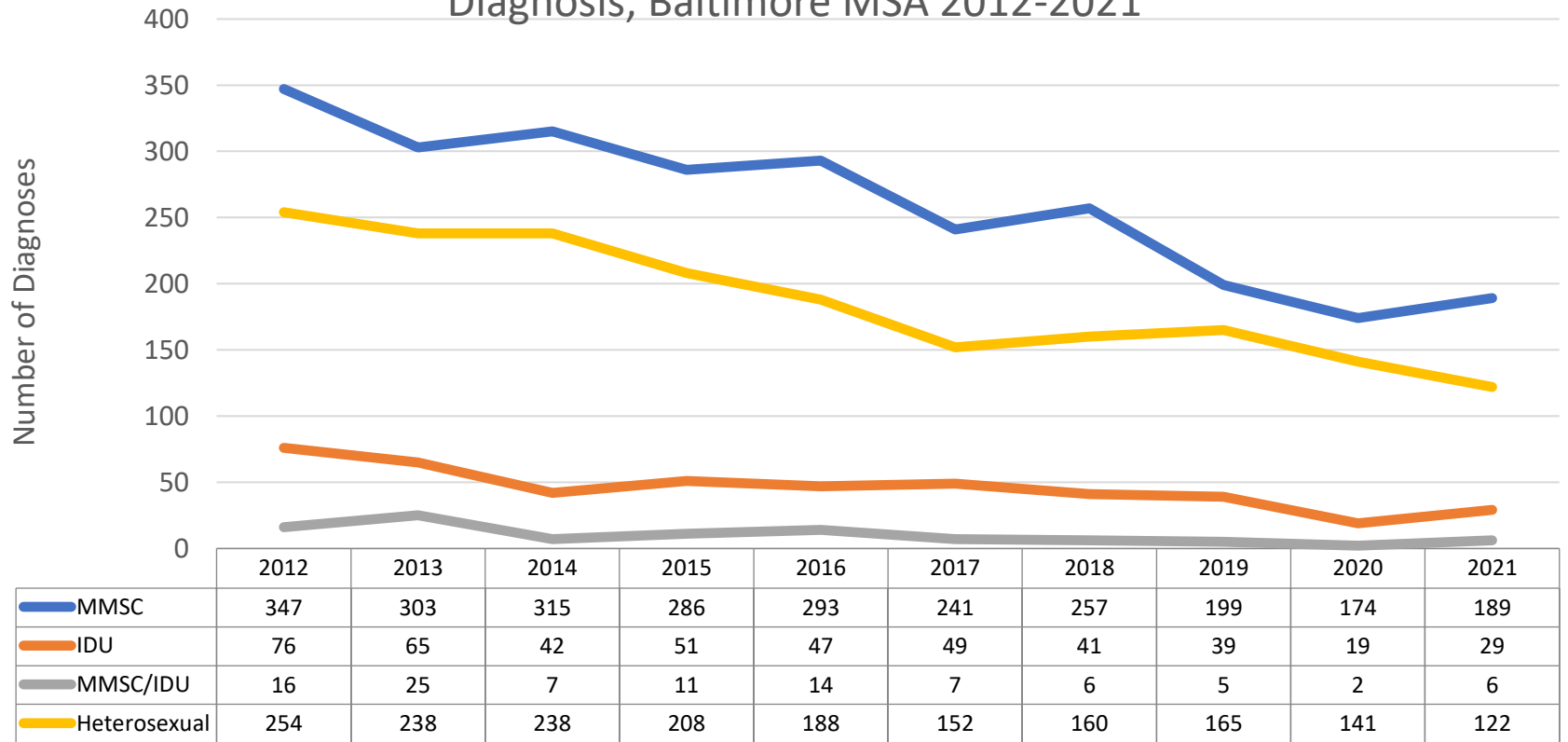
Estimated Time to Diagnosis

Estimated Time from HIV Infection to Diagnosis, Maryland, 2020
Total = 8.0 years



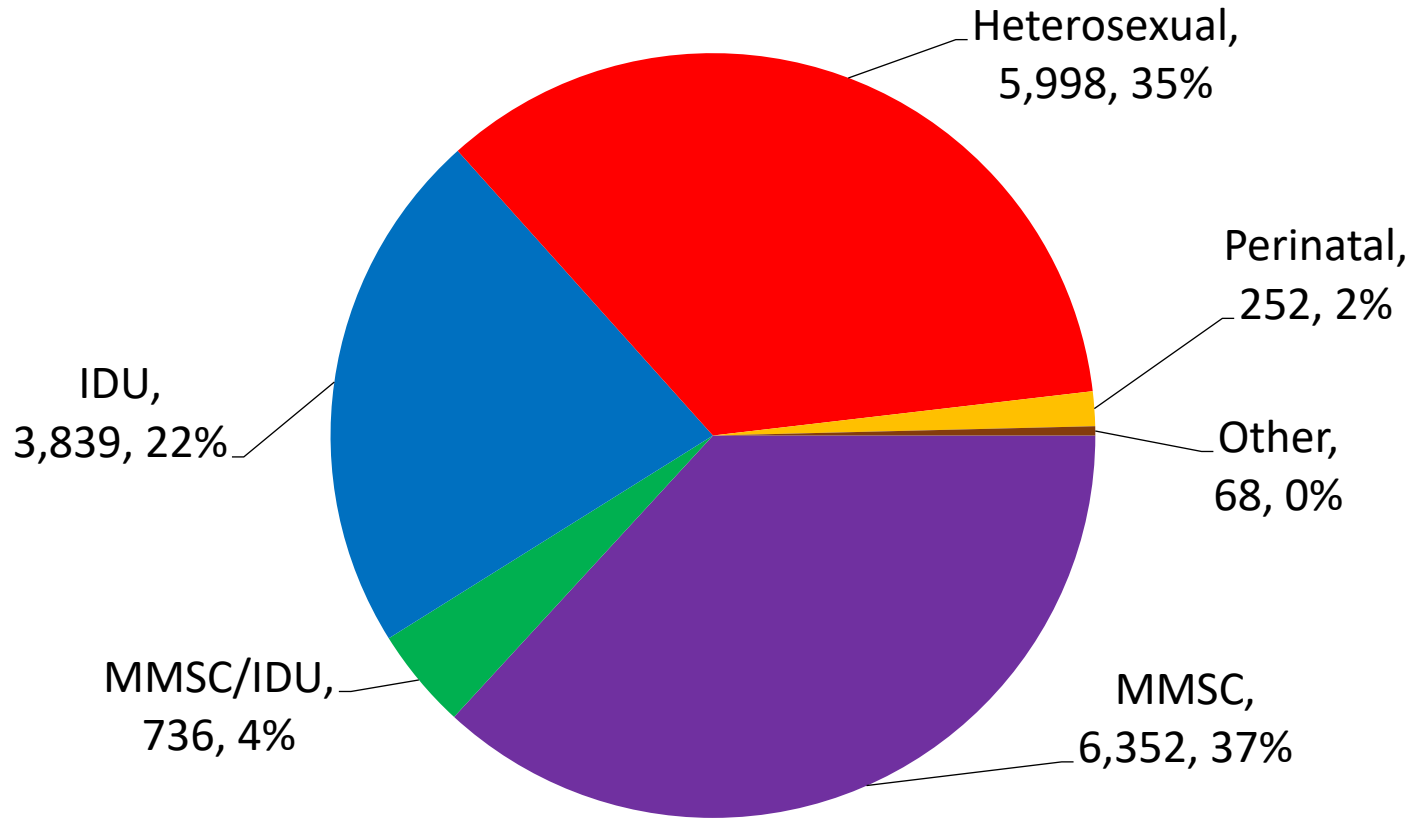
HIV Diagnosis Exposure Trends

Number of HIV Diagnoses by Exposure Category and Year of Diagnosis, Baltimore MSA 2012-2021

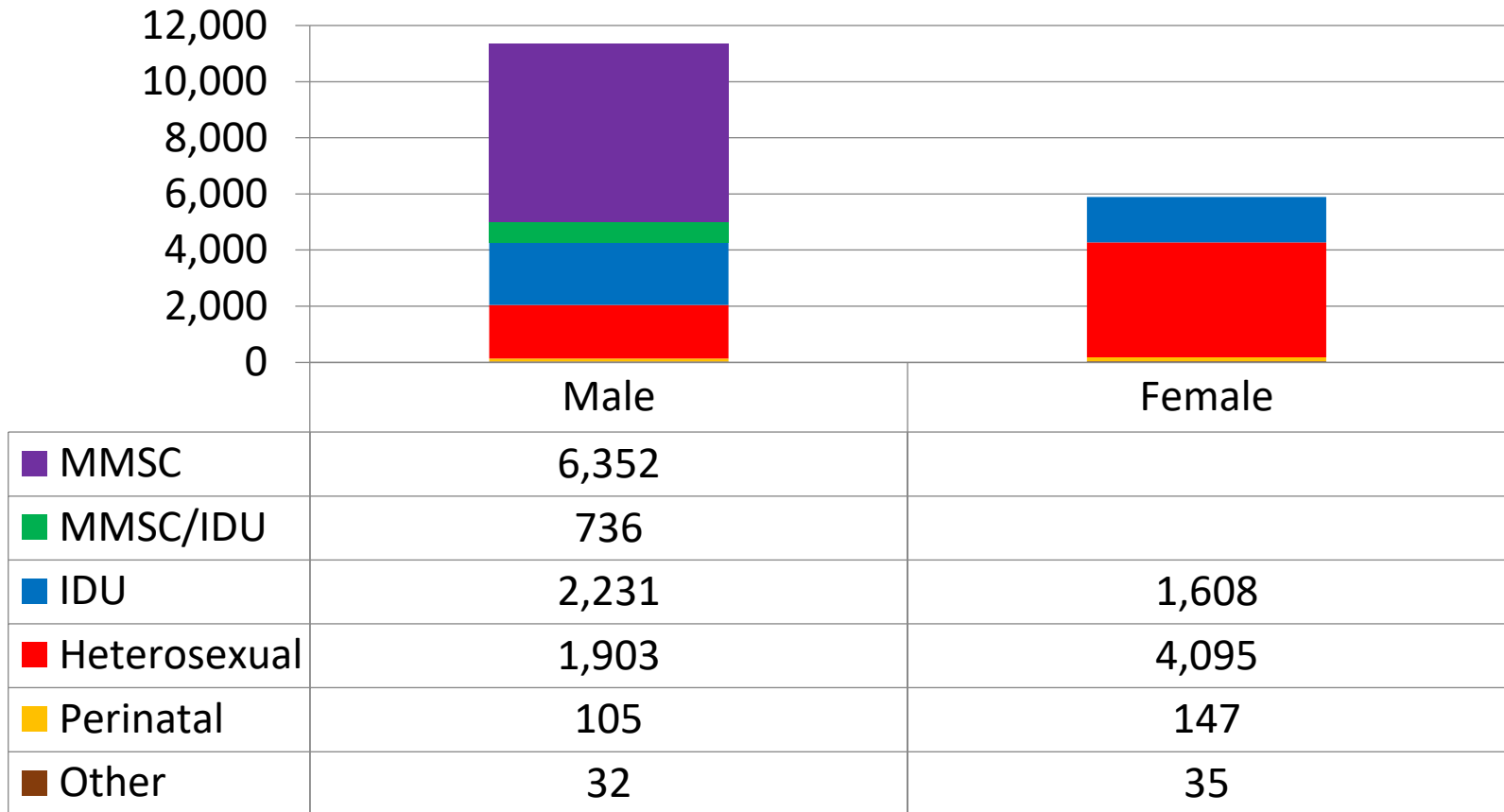


People Living with HIV by Exposure

Age 13+ on 12/31/21 = 17,245



People Living with HIV by Exposure



Annual Epi Profile

- Also available for:
 - Anne Arundel County
 - Baltimore City
 - Baltimore County

2021

**BALTIMORE
METROPOLITAN
REGION ANNUAL HIV
EPIDEMIOLOGICAL
PROFILE**

Data reported through
June 30, 2022

**CENTER FOR HIV
SURVEILLANCE,
EPIDEMIOLOGY AND
EVALUATION**

Infectious Disease Prevention and
Health Services Bureau
Prevention and Health Promotion
Administration



Additional Data

- HIV statistics page
 - <https://health.maryland.gov/phpa/OIDEOR/CHSE/Pages/statistics.aspx>
 - Customizable Continuum of Care Dashboard
 - <http://bit.ly/HIVcontinuum>
 - Customizable Mapping Dashboard
 - [Maryland HIV Epidemiological Maps | Tableau Public](#)
- HIV Data Request e-mail
 - mdh.hivdatarequest@maryland.gov
- Questions? colin.flynn@maryland.gov