Epidemiologic Profile
St. Louis TGA – 2026



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Epidemiologist – HIV, STIs, TB

No Conflicts of Interest

Today's Objectives

- *State the limitations that can affect the accuracy and completeness of reporting HIV/AIDS-related data within the St. Louis Transitional Grant Area (STL-TGA)*
- *Define each of the terms used to describe the Epidemiologic Profile*
- *Describe the distribution of HIV/AIDS within STL-TGA and the population subgroups affected*
- *Compare the trends and patterns of People Living with HIV or AIDS (PLWHA) within the STL-TGA by year, area, and subgroup*

Data Limitations & Disclosures



Data Limitations & Disclosures

National Public Health Agencies

- *CDC*
  - *HIV data retrieved from National HIV Surveillance System (NHSS)*
    - *State & US Territory laws/regulations require confidential reporting by name for PLWHA ≥ 13 years of age*
      - *Data submitted to CDC after PHI removed*
      - *Dependent on confirmed HIV diagnosis, may not represent all PLWHA*
      - *Anonymous testing NOT reported to confidential name-based HIV registries*
  - **Latest HIV Care Continuum & Surveillance data released on 4/30/25, covering 2023**
    - *2025: significant reduction in workforce at Division of HIV Prevention (DHP)*
    - *2024 HIV Surveillance Report + 2023 supplemental reports still delayed as of April 2026*

Data Limitations & Disclosures

National Public Health Agencies

- *CDC (cont.)*
  - *Data for 2024 & 2025 considered preliminary*
    - *Subject to 12-month reporting delay*
    - *Inclusion of such data in trends discouraged*
  - *COVID-19*
    - *Pandemic interrupted healthcare-related data 2020-2021*
    - *Counts <12 and/or from the Pandemic should be interpreted with caution*
  - *Since 1/20/25*
    - *Many websites under modification to comply with "executive orders"*
    - *Previous terms modified (e.g. "individuals of color within population of focus)*

Data Limitations & Disclosures

State Health Departments

- *MO-DHSS*
  - *Data is typically "frozen" (finalized) in February for the prior year*
    - *WebSurv/Show Me World Care + Vital Records data frozen by June*
    - *Epi Profile reports now done **every five years***
  - *Provided 2020 – 2024 data*
    - *Received Unmet Needs data in March 2026*
      - **Supplemental info available via online HIV dashboard + eHARS**

Data Limitations & Disclosures

State Health Departments

- *IL-DPH*
  - *Data frozen in July for the prior year*
    - *Epi Profile reports now done **every five years***
  - *Provided 2020 – 2024 data*
    - *Received Unmet Needs data in March 2026*
      - **Supplemental info available online via HIV Surveillance Reports**
  - *Different definitions*
    - *St. Louis EMA (Eligible Metropolitan Area)*
    - *Late HIV diagnosis: AIDS dx. within 1 year of HIV dx.*
    - *Suppression rules: cell sizes <10, cells ≥ 10 that can provide back calculation*

Data Limitations & Disclosures

City of St. Louis DOH

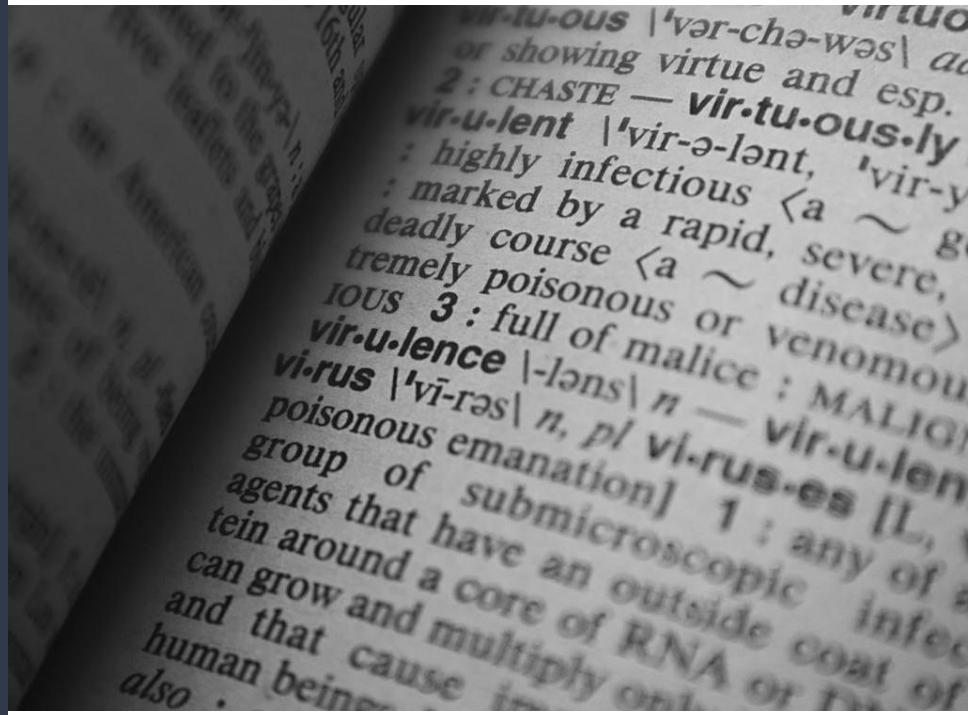
- *Main focus on secondary data analysis (ie. Pre-existing data)*
  - *Primary data collected & entered by case investigators, case managers, etc.*
- *Access to SCOUT and eHARS databases*
  - *Different data organization, programming code, and user learning requirements*
  - *Case information not always consistent or shared*
  - *Databases updated at different intervals*
- *COVID-19*
  - *Pandemic interrupted healthcare-related data 2020-2021*

Data Limitations & Disclosures

City of St. Louis DOH

- *Most recent data (2024 – 2026) considered "provisional" and subject to changes from:*
  - *Reporting delays*
  - *PLWHA moving between jurisdictions*
  - *Resolving incorrect or missing data*
- *Small case counts → poor reliability*
- *Data suppression rules*
  - *Necessary to safeguard protected health info (PHI) & confidentiality*
  - *Aid in preventing identification of individuals in small groups and/or unique characteristics*

RWHAP Terminology



Credit: “Nothing Ahead,” https://www.pexels.com/photo/words-in-dictionary-4440720/

RWHAP Terminology

Population

- *Population Size: Number of people living with diagnosed HIV infection in the jurisdiction based on most recent known address who had an HIV diagnosis or any other HIV-related lab data (e.g., CD4, VL, genotype, or HIV test even if already diagnosed) reported to the HIV surveillance program during the most recent five calendar year period*
    - *HIV Prevalence: All living and diagnosed cases of HIV as of a certain date within a certain geographic area*
    - *HIV Mortality: Deaths among people diagnosed with HIV disease, regardless of cause of death, during a calendar year*

RWHAP Terminology

Diagnostic Status

- *HIV Incidence: All newly diagnosed cases of HIV in a given year*
  - *New Diagnoses: Number of people in the jurisdiction with HIV diagnosed in a calendar year based on residence at time of diagnosis*
  - *Late diagnoses: Number of people with late diagnosed HIV in a calendar year in the jurisdiction based on residence at time of diagnosis. Late diagnosed HIV is based on the first CD4 test result (<200 cells/mL or a CD4 percentage of total lymphocytes of <14) or documentation of an AIDS-defining condition ≤3 months after a diagnosis of HIV infection*

RWHAP Terminology

Care Patterns

- *Linked to Care: Number of people newly diagnosed with HIV who visited an HIV healthcare provider (HCP) within 30 days of diagnosis*
- *Receipt of Care: Number of people with diagnosed HIV who had ≥1 CD4 or viral load (VL) test*
- *Retained in Care: Number of people with diagnosed HIV who had ≥2 CD4 or VL tests, performed ≥3 months apart*

RWHAP Terminology

Care Patterns

- *Met need (In care): Number of people living with diagnosed HIV infection in the jurisdiction based on most recent known address with a CD4 test or VL test in a calendar year*
- *Unmet need: Number of people living with diagnosed HIV infection in the jurisdiction based on most recent known address without any CD4 or VL test in a calendar year*

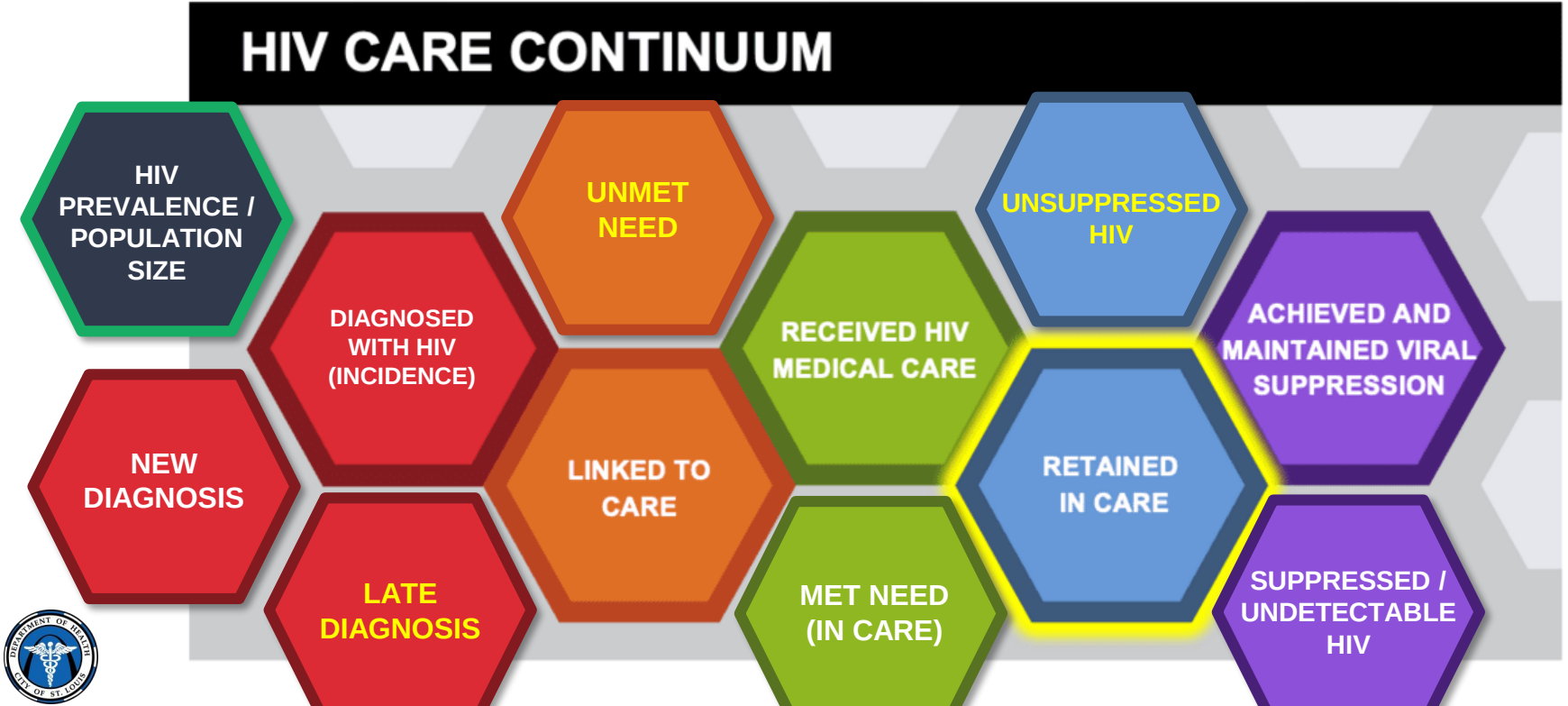
RWHAP Terminology

Viral Suppression

- *Virally suppressed: Number of people living with diagnosed HIV infection in the jurisdiction who are in care and whose most recent viral load test result was <200 copies/mL in a calendar year*
- *Not virally suppressed: Number of people living with diagnosed HIV infection in the jurisdiction who are in care and whose most recent viral load test result was ≥200 copies/mL in a calendar year*

RWHAP Terminology

Concept Cohesion



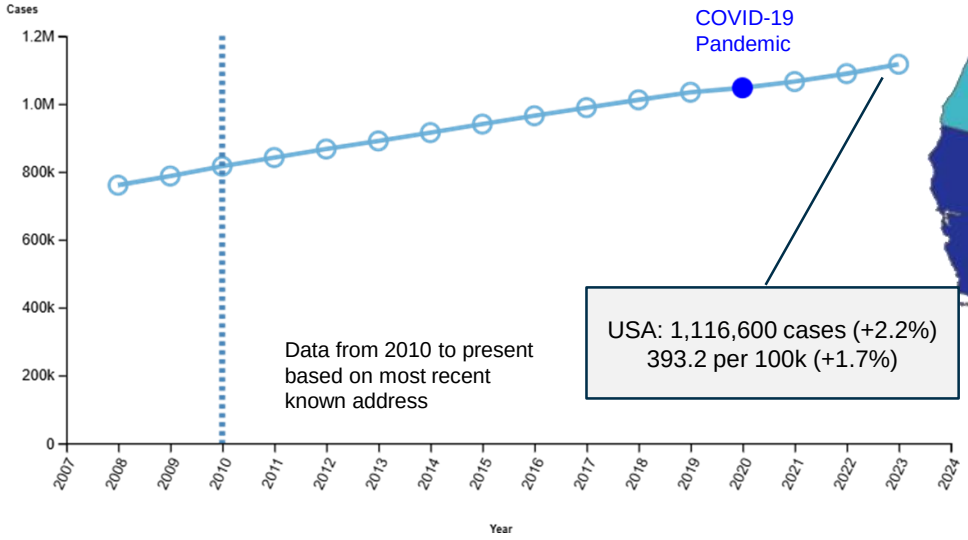
HIV Epidemiology

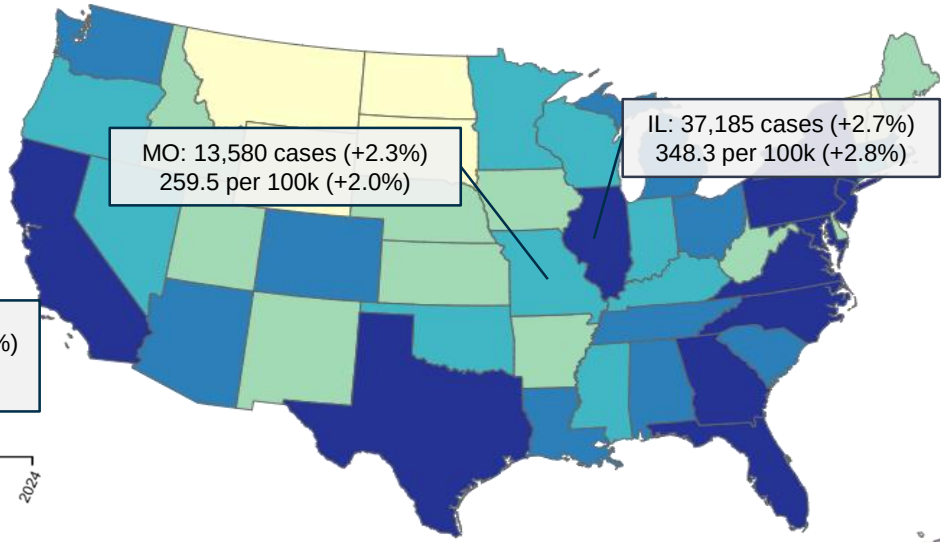


HIV Epidemiology

National & State Prevalence, 2023

HIV prevalence | 2023 | Ages 13 years and older | All races/ethnicities | Both sexes | All transmission categories | United States

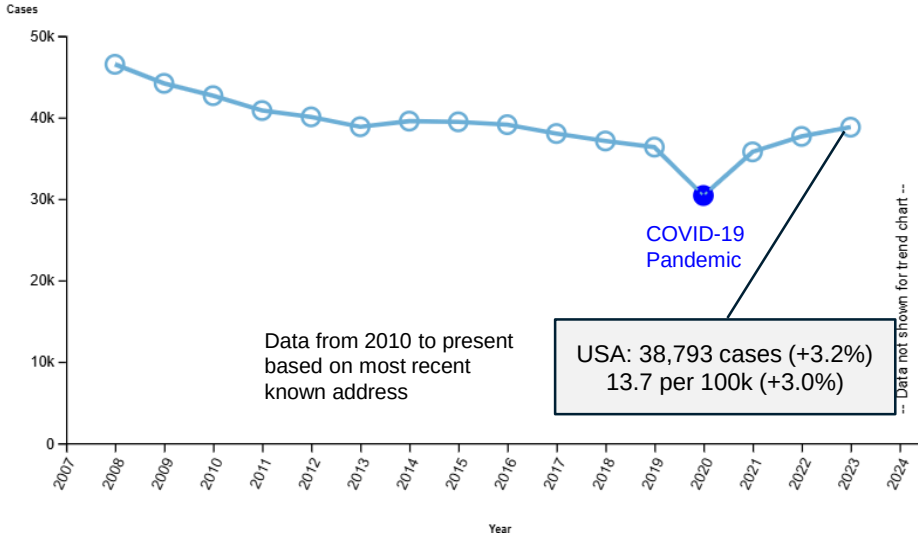


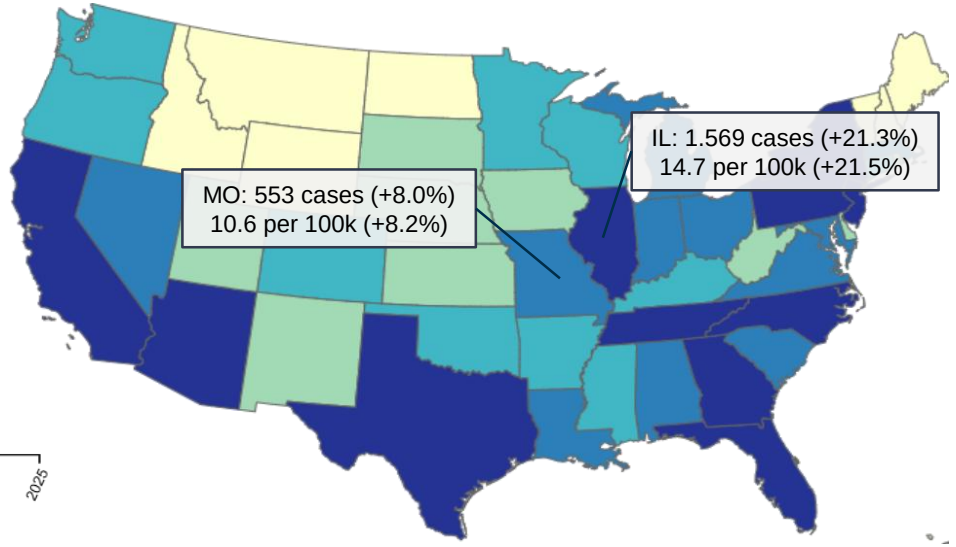


HIV Epidemiology

National & State Incidence, 2023

HIV diagnoses | 2023 | Ages 13 years and older | All races/ethnicities | Both sexes | All transmission categories | United States

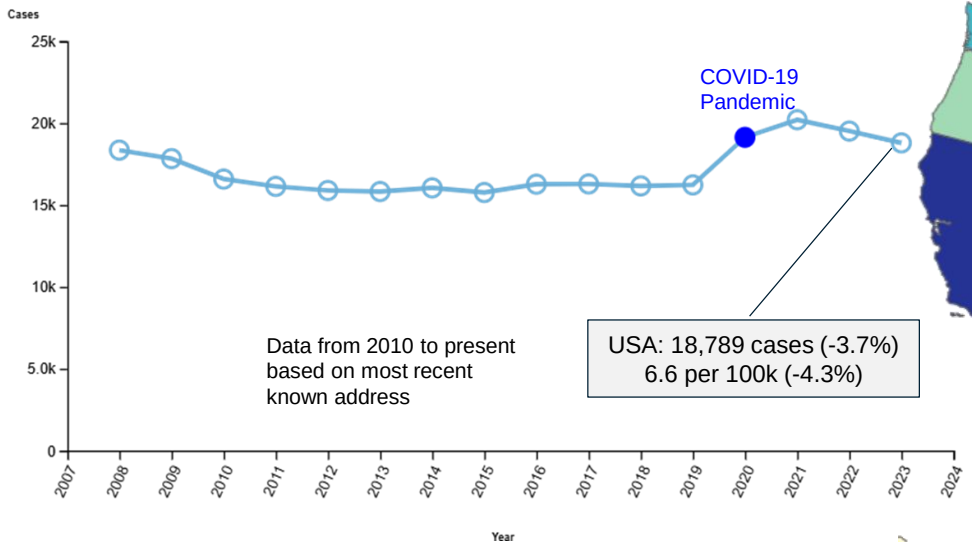


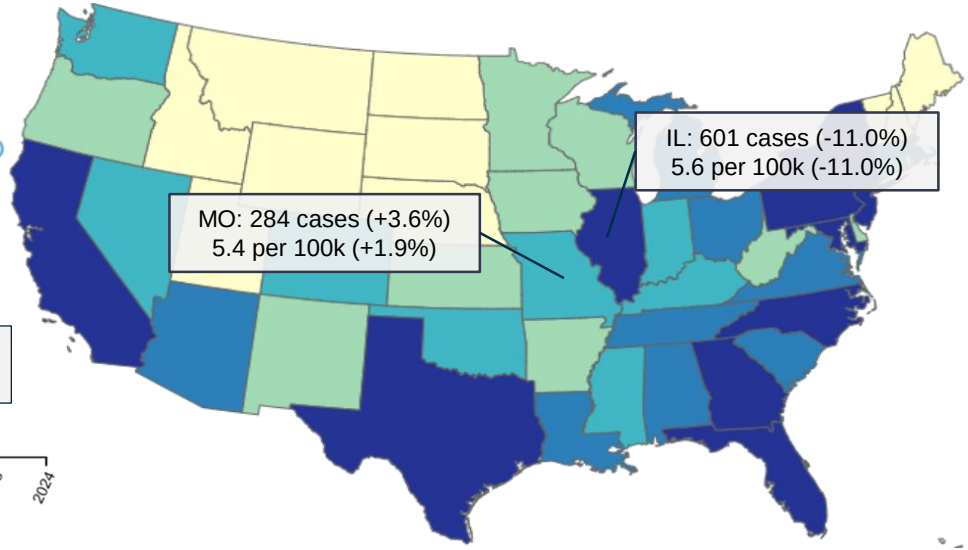


HIV Epidemiology

National & State Mortality, 2023

HIV deaths | 2023 | Ages 13 years and older | All races/ethnicities | Both sexes | All transmission categories | US Map-State Level

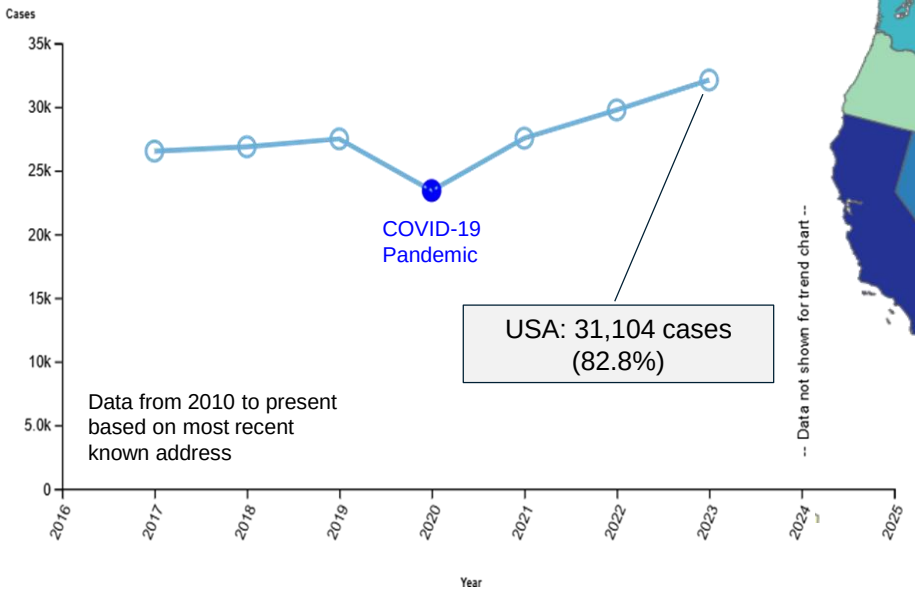


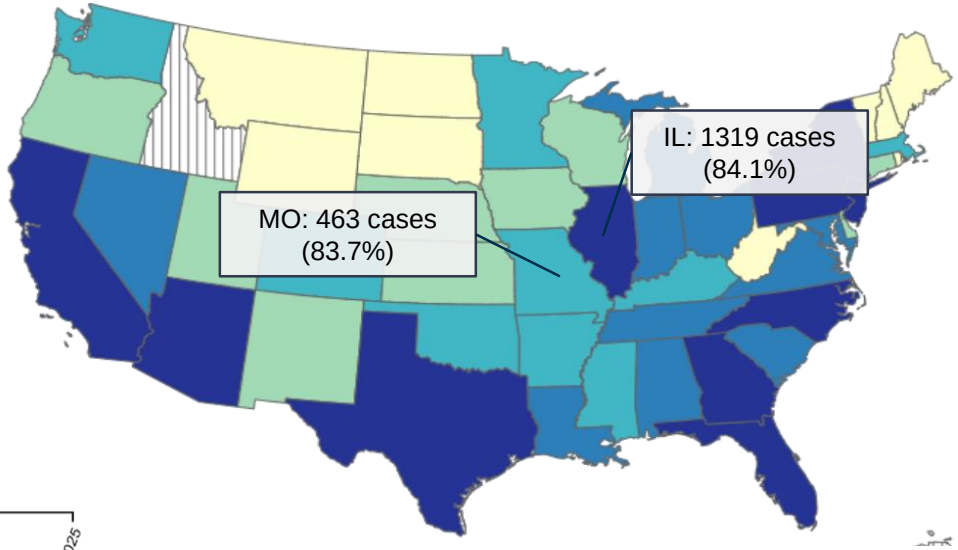


HIV Epidemiology

National & State Linkage to Care, 2023

Linkage to HIV care | 2023 | Ages 13 years and older | All races/ethnicities | Both sexes | All transmission categories | United States

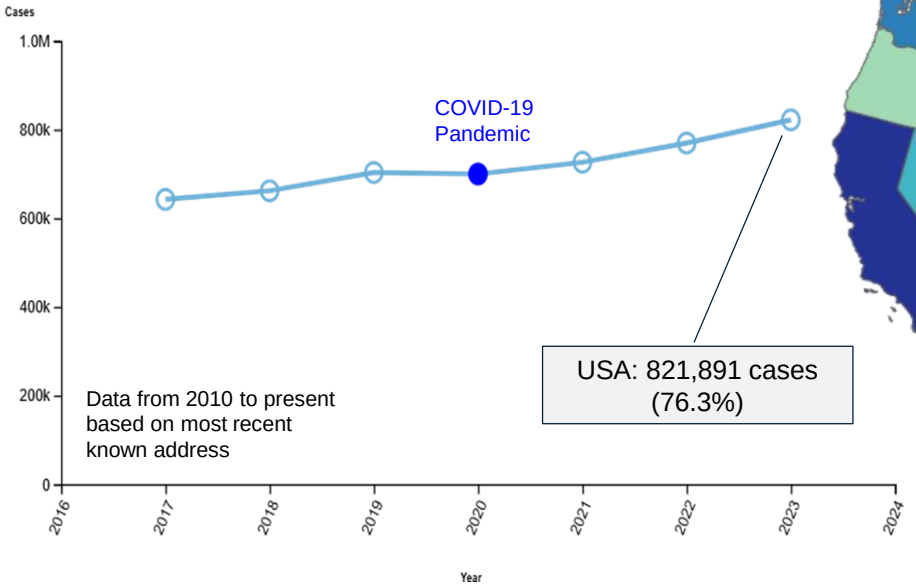


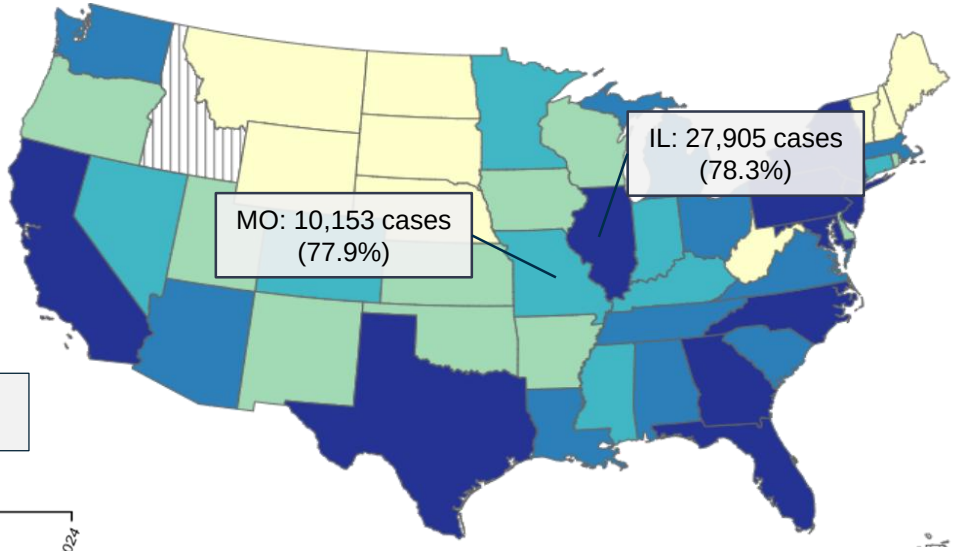


HIV Epidemiology

National & State Receipt of HIV Medical Care, 2023

Receipt of HIV medical care | 2023 | Ages 13 years and older | All races/ethnicities | Both sexes | All transmission categories | United States

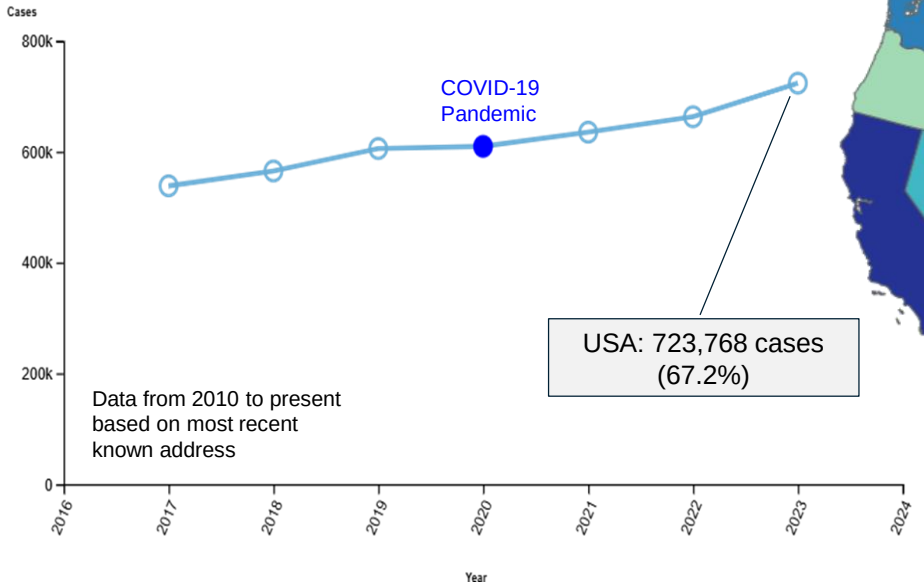




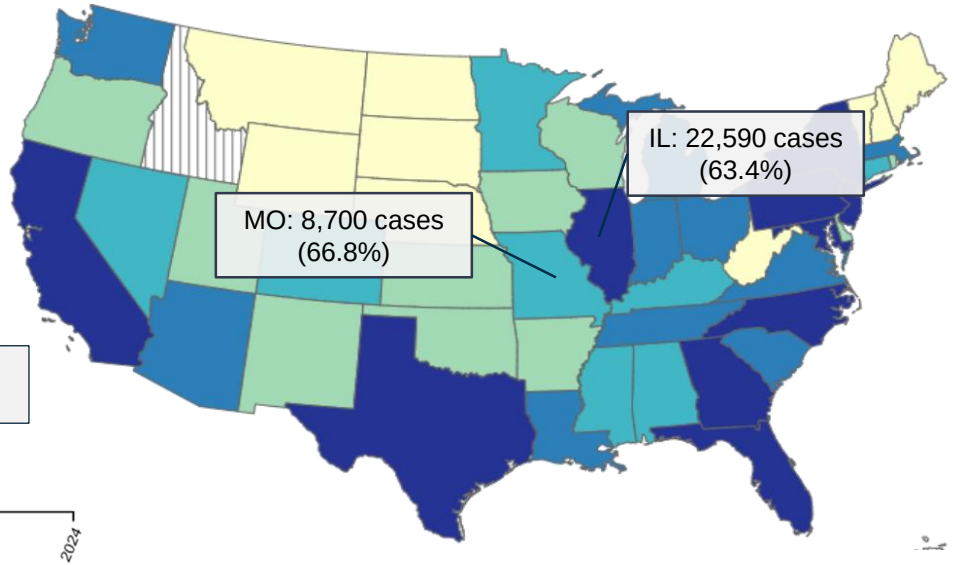
HIV Epidemiology

National & State Viral Suppression, 2023

HIV viral suppression | 2023 | Ages 13 years and older | All races/ethnicities | Both sexes | All transmission categories | US Map-State Level



USA: 723,768 cases (67.2%)



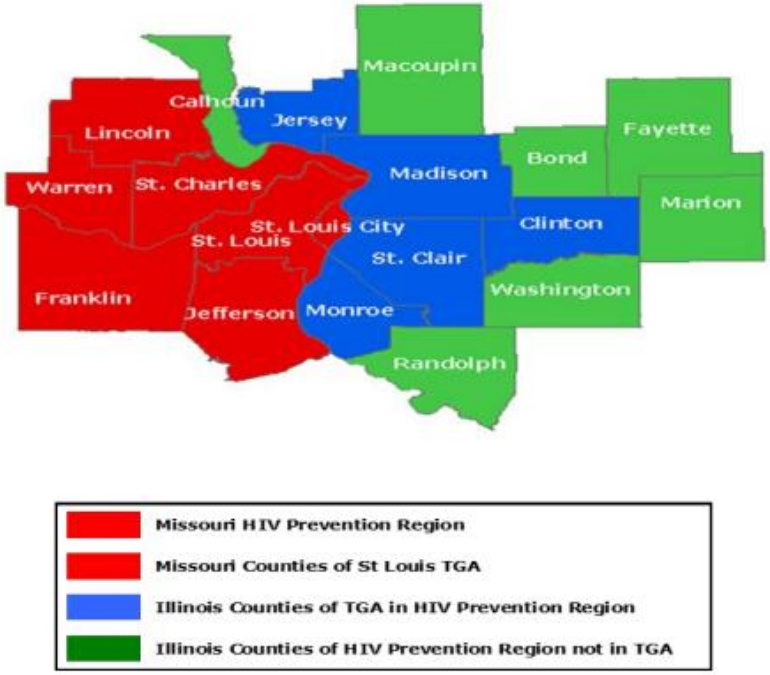
TGA Metrics: Prevalence, Incidence, etc.



TGA Metrics

Regional Profile, 2024

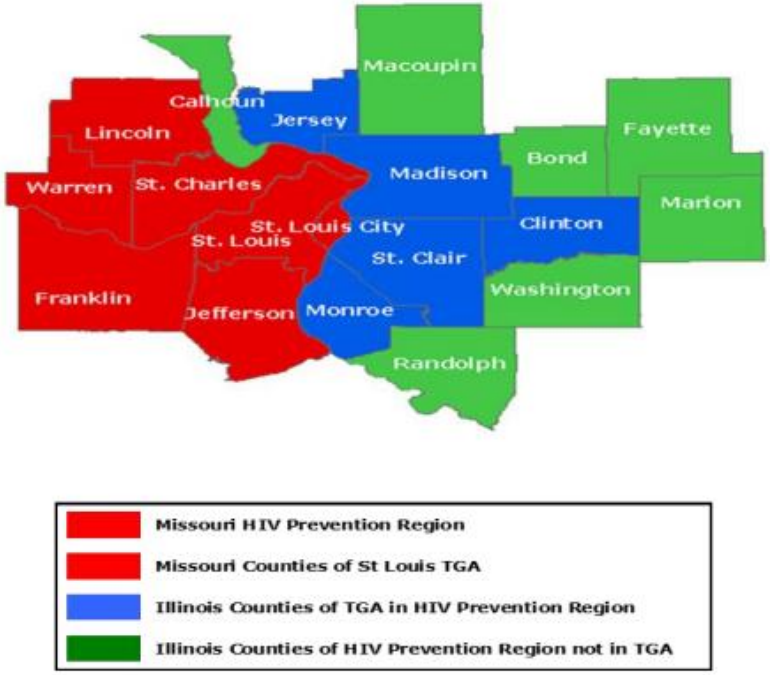
- *Overall Demographics*
  - *Population: 2,745,454*
  - *Sex: 48.8% male, 51.2% female*
  - *Race: 70.1% White, 17.4% Black, 8.5% Other, 4.0% Hispanic/Latinx*
  - *Edu. Attainment: 6.4% below HS, 25.1% HS grads, 30.0% some college or Assoc. Degree, 38.6% w/ Bachelor's Degree or higher*



TGA Metrics

Regional Profile, 2024

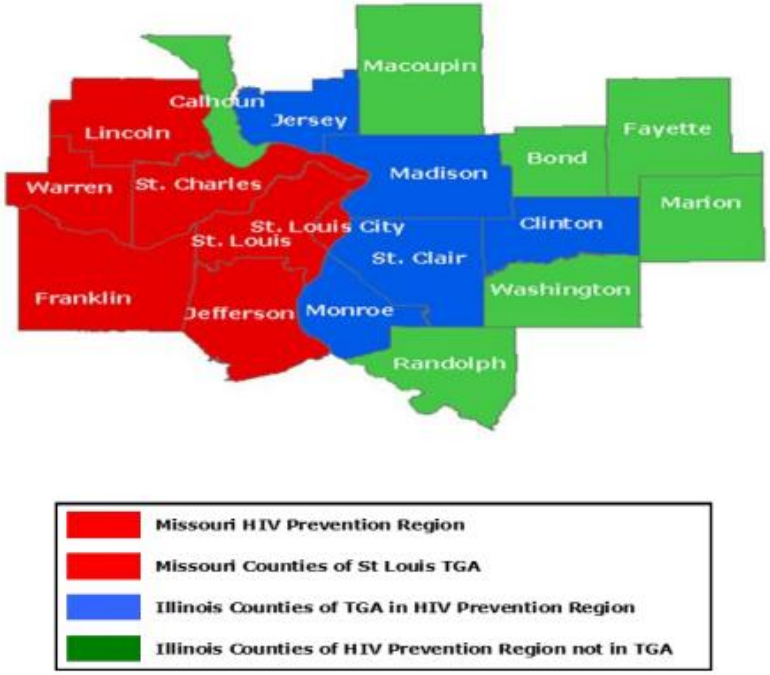
- *Overall Demographics (cont.)*
  - *Income (median): $82,030*
  - *Health insurance (medians): 5.4% w/o insurance, 33.2% w/ public insurance*
  - *Below poverty level: 10.5%*
  - *Occupied households, no vehicle (median): 4.3%*
    - *range 3.1% - 18.5%*



TGA Metrics

Population by County, 2024

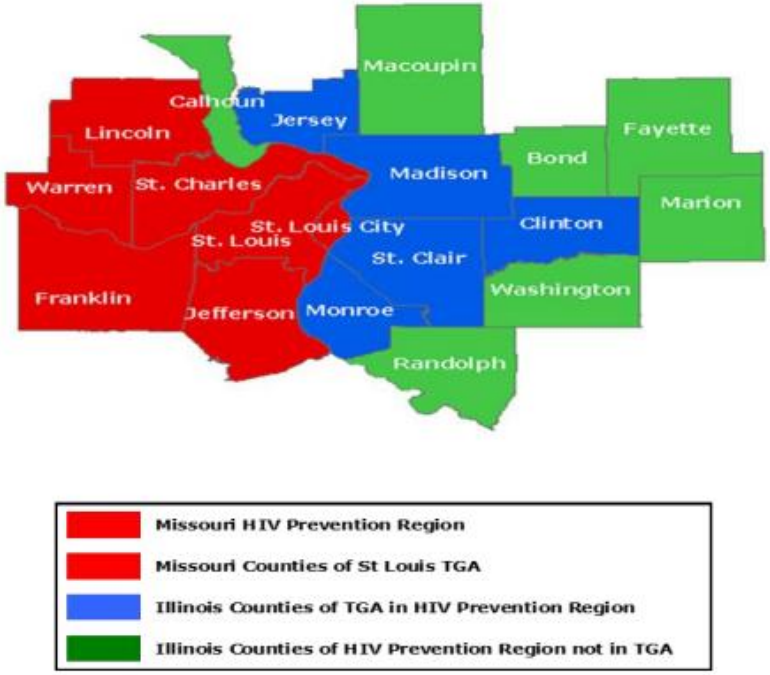
2024 COUNTY	Total Population	% of TGA
CLINTON, IL	36,954	1.3%
JERSEY, IL	21,274	0.8%
MADISON, IL	264,238	9.6%
MONROE, IL	35,036	1.3%
ST. CLAIR, IL	253,694	9.2%
FRANKLIN, MO	105,950	3.9%
JEFFERSON, MO	229,458	8.4%
LINCOLN, MO	63,057	2.3%
ST. CHARLES, MO	414,535	15.1%
ST. LOUIS CITY, MO	288,512	10.5%
ST. LOUIS COUNTY, MO	995,569	36.3%
WARREN, MO	37,177	1.4%
TOTAL	2,745,454	100.0%
AVERAGE	228,788	8.3%
MEDIAN	167,704	6.1%



TGA Metrics

HIV Prevalence, 2024

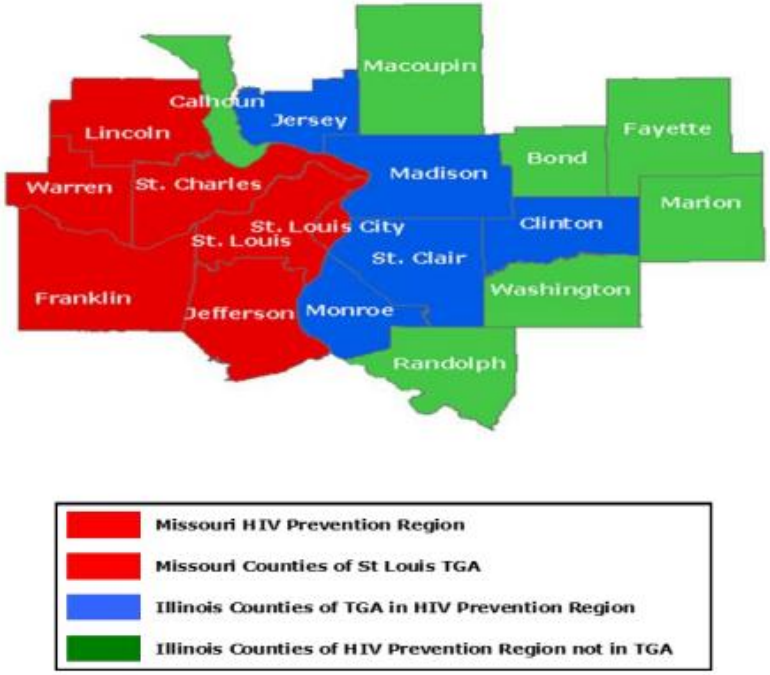
2024 COUNTY	# of PLWHA (13+ years)	% of TGA Prevalence	Rate per 100k
CLINTON, IL	52	0.7%	160.8
JERSEY, IL	SUPPRESSED	SUPPRESSED	SUPPRESSED
MADISON, IL	374	5.3%	161.8
MONROE, IL	26	0.4%	84.8
ST. CLAIR, IL	884	12.5%	398.2
FRANKLIN, MO	90	1.3%	97.1
JEFFERSON, MO	272	3.8%	135.5
LINCOLN, MO	35	0.5%	63.4
ST. CHARLES, MO	336	4.7%	92.6
ST. LOUIS CITY, MO	2002	28.2%	793.0
ST. LOUIS COUNTY, MO	2998	42.3%	344.2
WARREN, MO	23	0.3%	70.7
TOTAL TGA	7092	100.0%	295.2
AVERAGE	591	8.3%	200.2
MEDIAN	181	2.6%	116.3



TGA Metrics

HIV Incidence, 2024

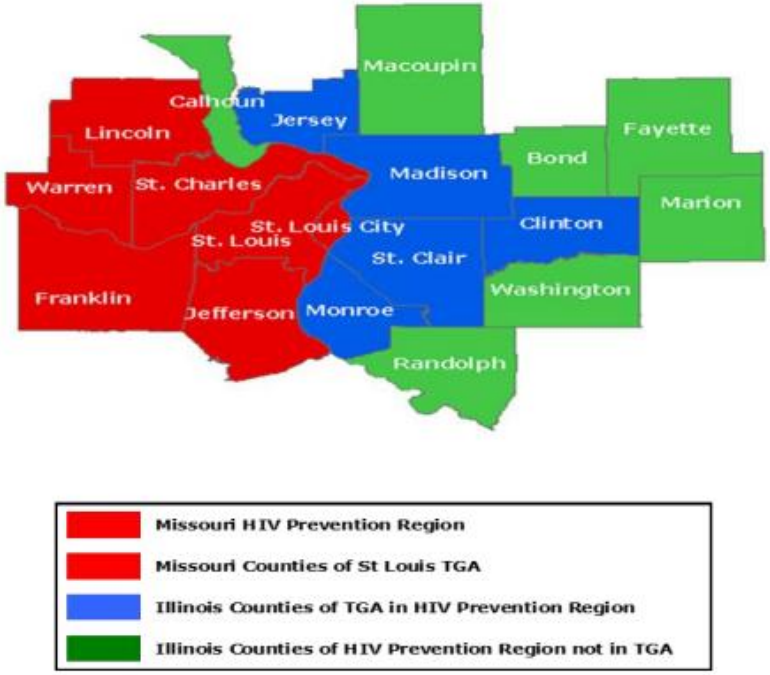
2024 COUNTY	# of PLWHA (13+ years)	% of TGA Incidence	Rate per 100k
CLINTON, IL	SUPPRESSED	SUPPRESSED	SUPPRESSED
JERSEY, IL	0	0.0%	0.0
MADISON, IL	20	6.6%	8.7
MONROE, IL	SUPPRESSED	SUPPRESSED	SUPPRESSED
ST. CLAIR, IL	34	11.2%	15.3
FRANKLIN, MO	SUPPRESSED	SUPPRESSED	SUPPRESSED
JEFFERSON, MO	6	2.0%	3.0
LINCOLN, MO	SUPPRESSED	SUPPRESSED	SUPPRESSED
ST. CHARLES, MO	19	6.3%	5.2
ST. LOUIS CITY, MO	95	31.4%	37.6
ST. LOUIS COUNTY, MO	129	42.6%	14.8
WARREN, MO	0	0.0%	0.0
TOTAL TGA	303	100.0%	12.6
AVERAGE	25	8.3%	7.1
MEDIAN	3	1.0%	1.5



TGA Metrics

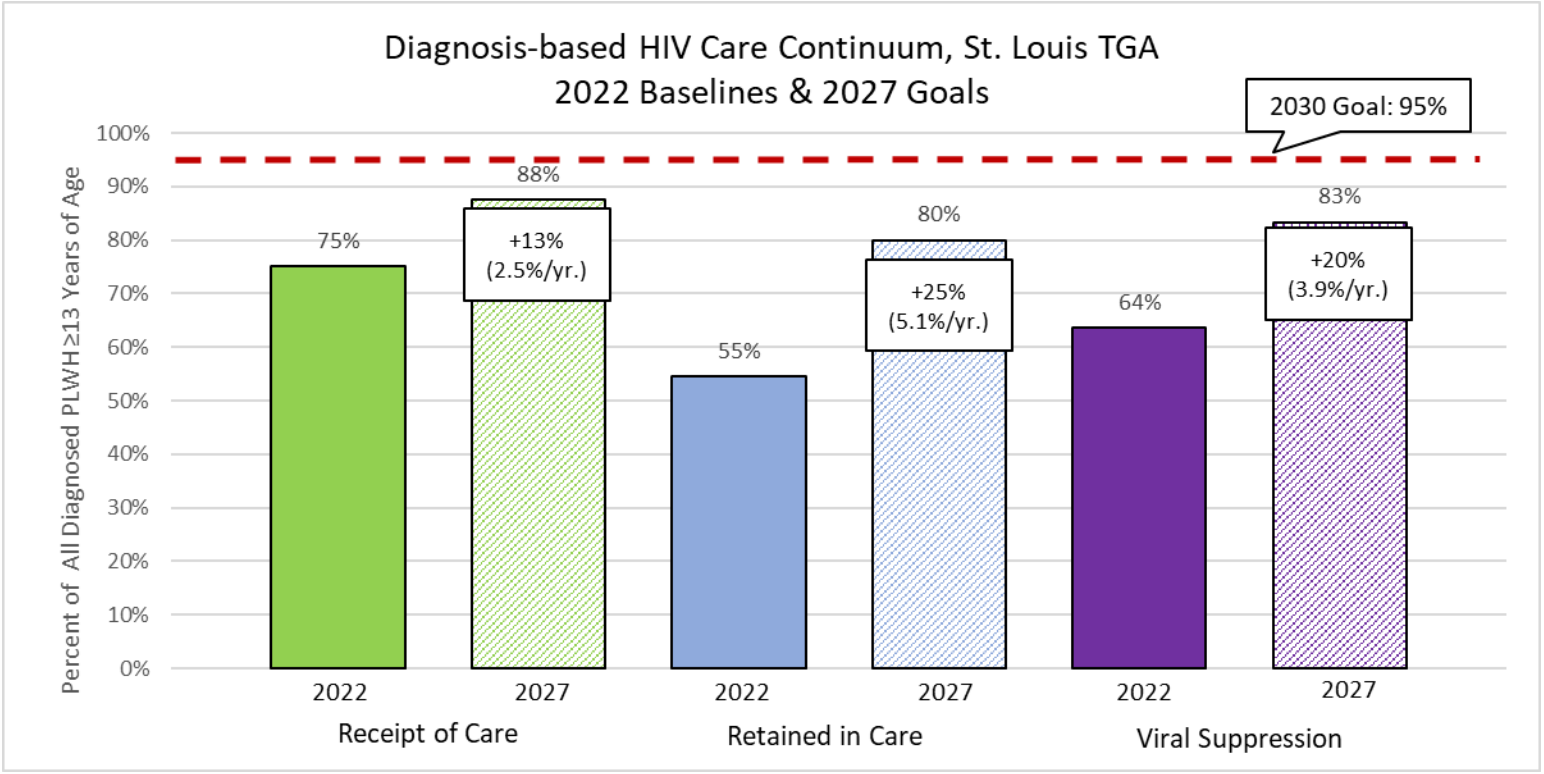
HIV Mortality, 2024

2024 REGION	# of PLWHA (13+ years)	% of TGA Deaths	Rate per 100k
CLINTON, JERSEY, MADISON, MONROE & ST. CLAIR, IL	22	18.3%	4.1
FRANKLIN, JEFFERSON, LINCOLN, ST. CHARLES, ST. LOUIS CITY, ST. LOUIS COUNTY & WARREN, MO	98	81.7%	5.2
TOTAL TGA	120	100.0%	5.0
AVERAGE	N/A	N/A	N/A
MEDIAN	N/A	N/A	N/A



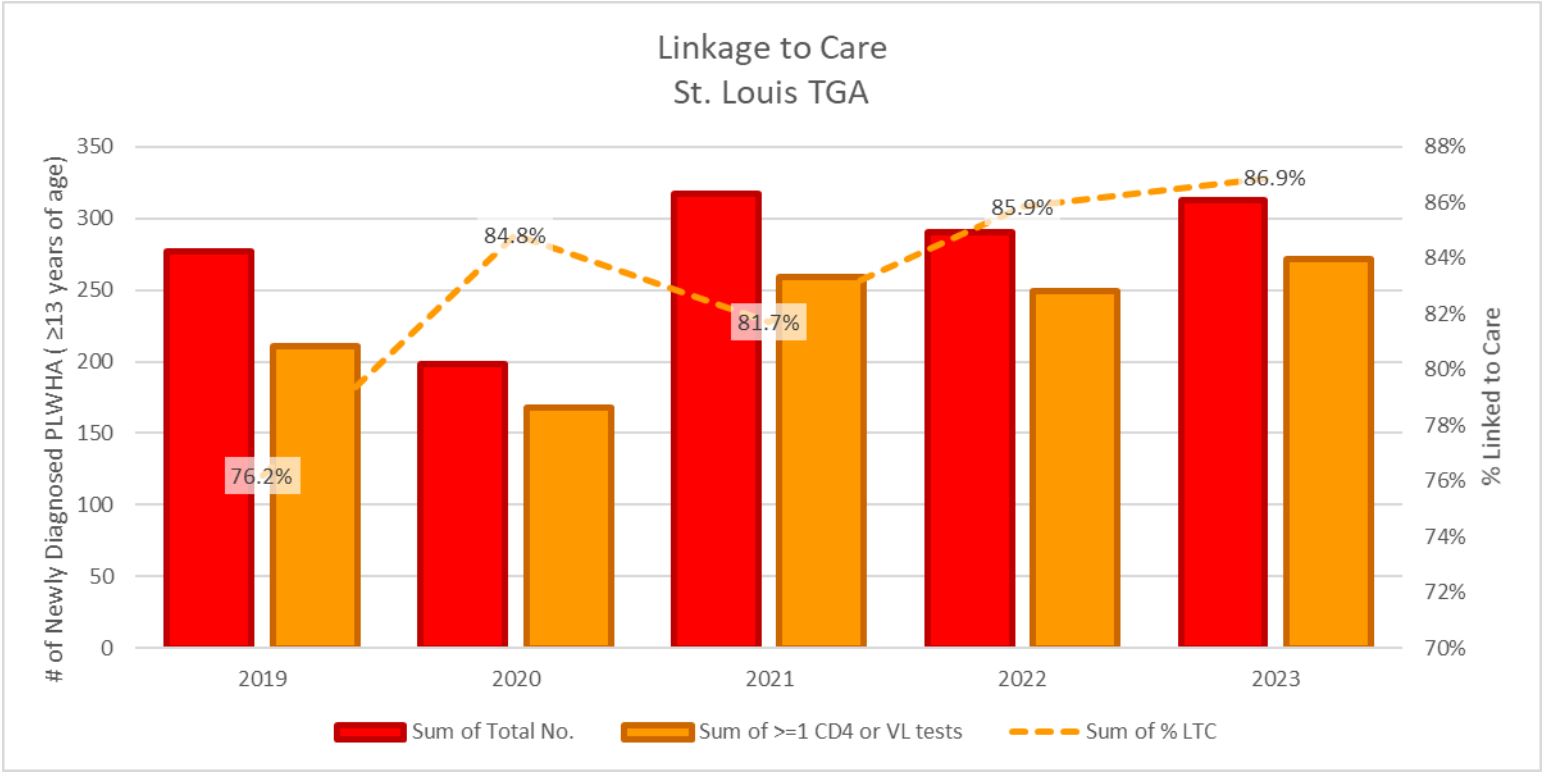
TGA Metrics

EHE Goals, 2022-2027



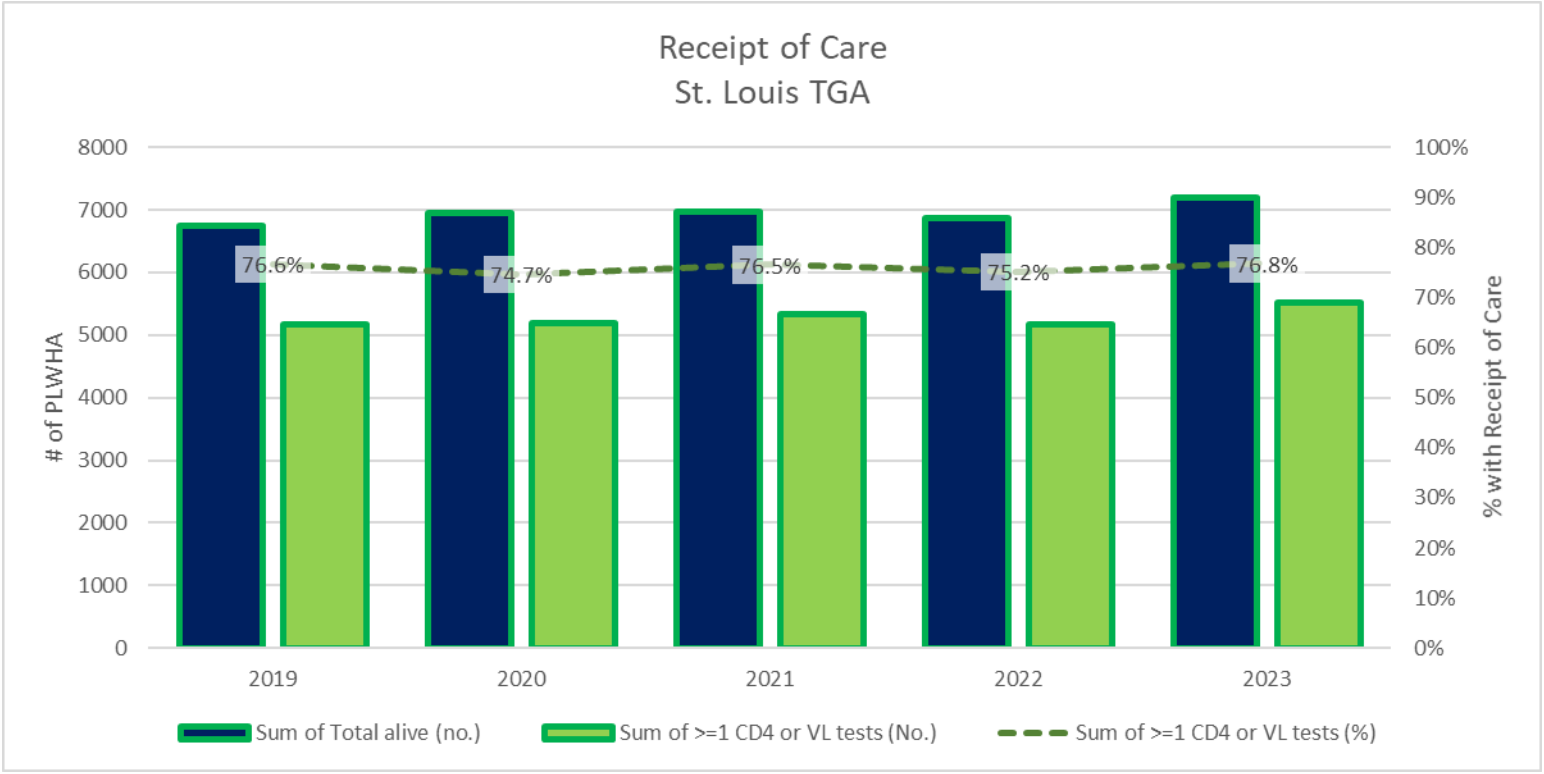
TGA Metrics

Linkage to Care, 2019-2023



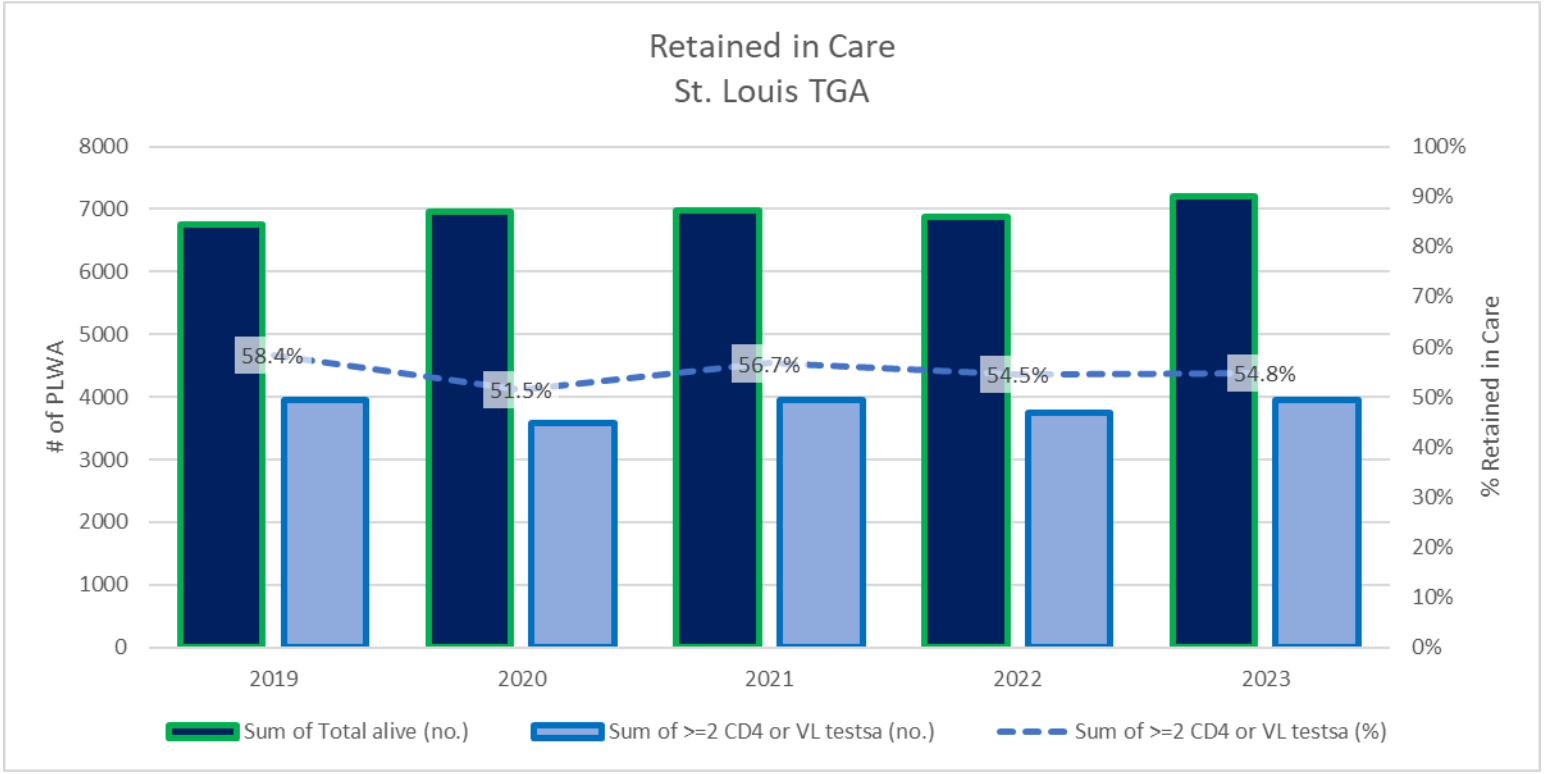
TGA Metrics

Receipt of Care, 2019-2023



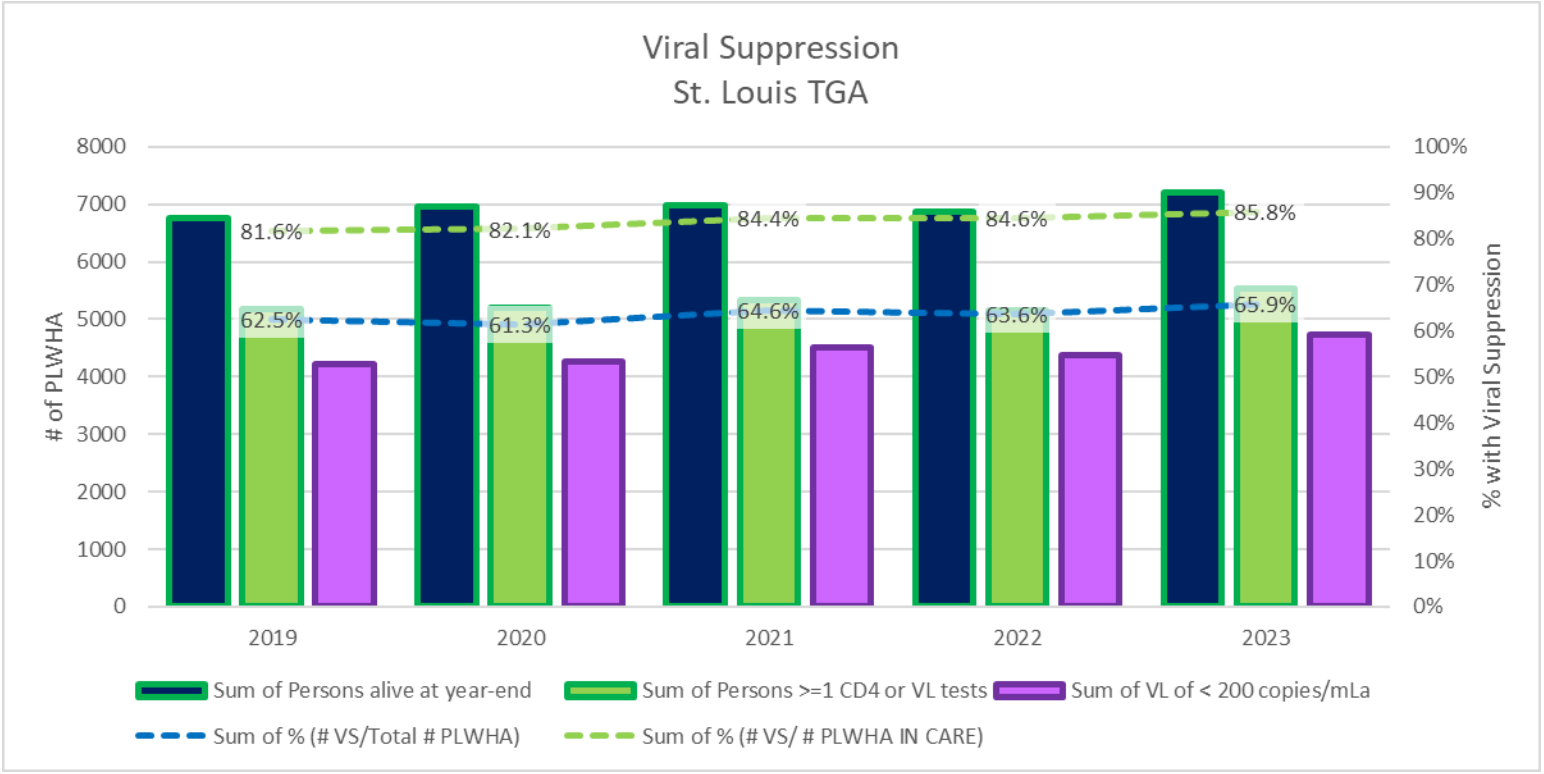
TGA Metrics

Retained in Care, 2019-2023



TGA Metrics

Receipt of Care, 2019-2023





J. Alex Plurad, MD, MPH
Epidemiologist – HIV, STIs, TB

Final Thoughts…



Questions

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Epidemiologic Profile, St. Louis TGA - 2026

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Epidemiologic Profile, St. Louis TGA - 2026

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Thank you!

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