

Evaluating the National HIV/AIDS Strategy with Surveillance Data

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Outline

- ❑ **Outcome measures of the National HIV/AIDS Strategy**
- ❑ **Surveillance data collection**
- ❑ **Preliminary data**
- ❑ **Conclusion**

National HIV/AIDS Strategy

- ❑ **Reducing New HIV Infections**
- ❑ **Increasing Access to Care and Improving Health Outcomes for People Living with HIV**
- ❑ **Reducing HIV-Related Health Disparities**

Reducing New HIV Infections

- ❑ Lower the annual number of new infections by 25 percent**
- ❑ Reduce the HIV transmission rate, which is a measure of annual transmissions in relation to the number of people living with HIV, by 30 percent**
- ❑ Increase from 79 percent to 90 percent the percentage of people living with HIV who know their serostatus**

Increasing Access to Care and Improving Health

- ❑ Increase the proportion of newly diagnosed patients linked to clinical care within three months of their HIV diagnosis from 65 percent to 85 percent
- ❑ Increase the proportion of Ryan White HIV/AIDS Program clients who are in continuous care (at least 2 visits for routine HIV medical care in 12 months at least 3 months apart) from 73 percent to 80 percent*
- ❑ Increase the percentage of Ryan White HIV/AIDS Program clients with permanent housing from 82 percent to 86 percent**

*Measurable by surveillance overall and for RW clients with linkage of databases

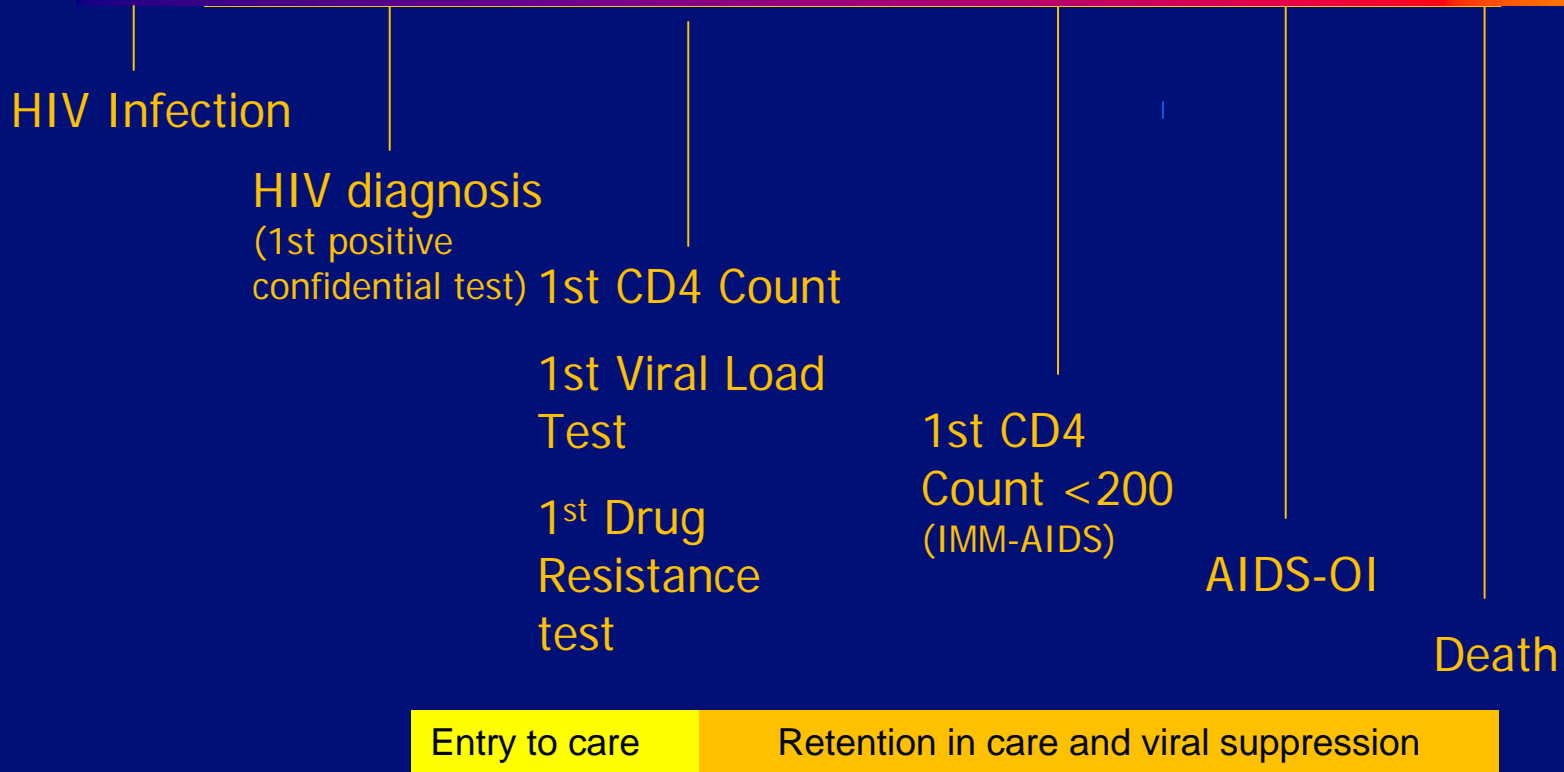
**Not measurable by surveillance

Reducing HIV-Related Health Disparities

- ❑ Increase the proportion of HIV diagnosed gay and bisexual men with undetectable viral load by 20 percent**
- ❑ Increase the proportion of HIV diagnosed Blacks with undetectable viral load by 20 percent**
- ❑ Increase the proportion of HIV diagnosed Latinos with undetectable viral load by 20 percent**

HIV Surveillance

Measures of HIV morbidity and mortality

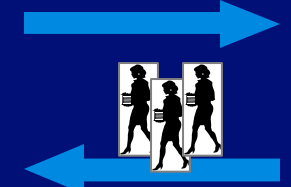


HIV Case Surveillance Information Flow



Vrxufhv#r#Jhsruw

Hospital Practitioners
Private Practitioners
Public Clinics
Laboratories



**Active
Case Finding**

Or fdc#k hdo#G hsw

HIV
Report
Lab report



Vdw#K hdo#G hsw

G lvh#p lqdw#r q

Local Bulletins
CDC Semiannual Report
HIV Web Sites
Public Information Data Set
Surveillance Slide Set

F G F

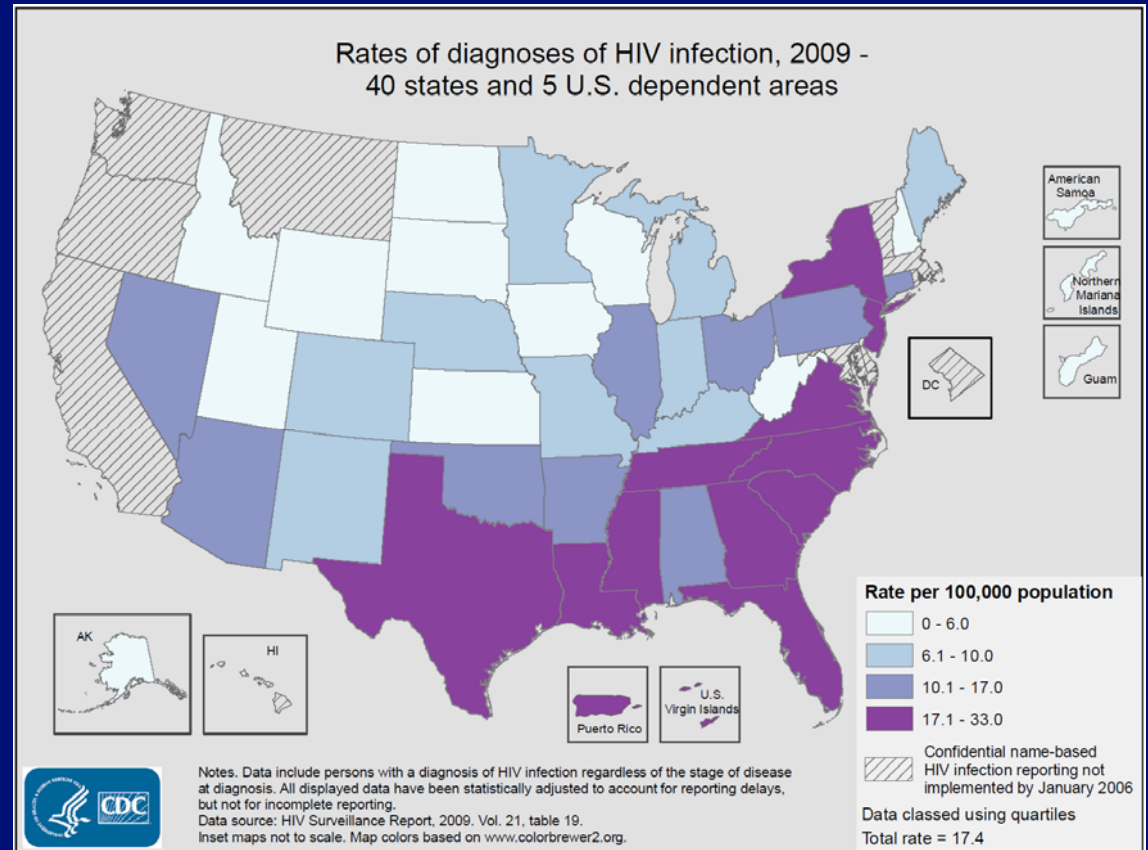


National HIV Surveillance

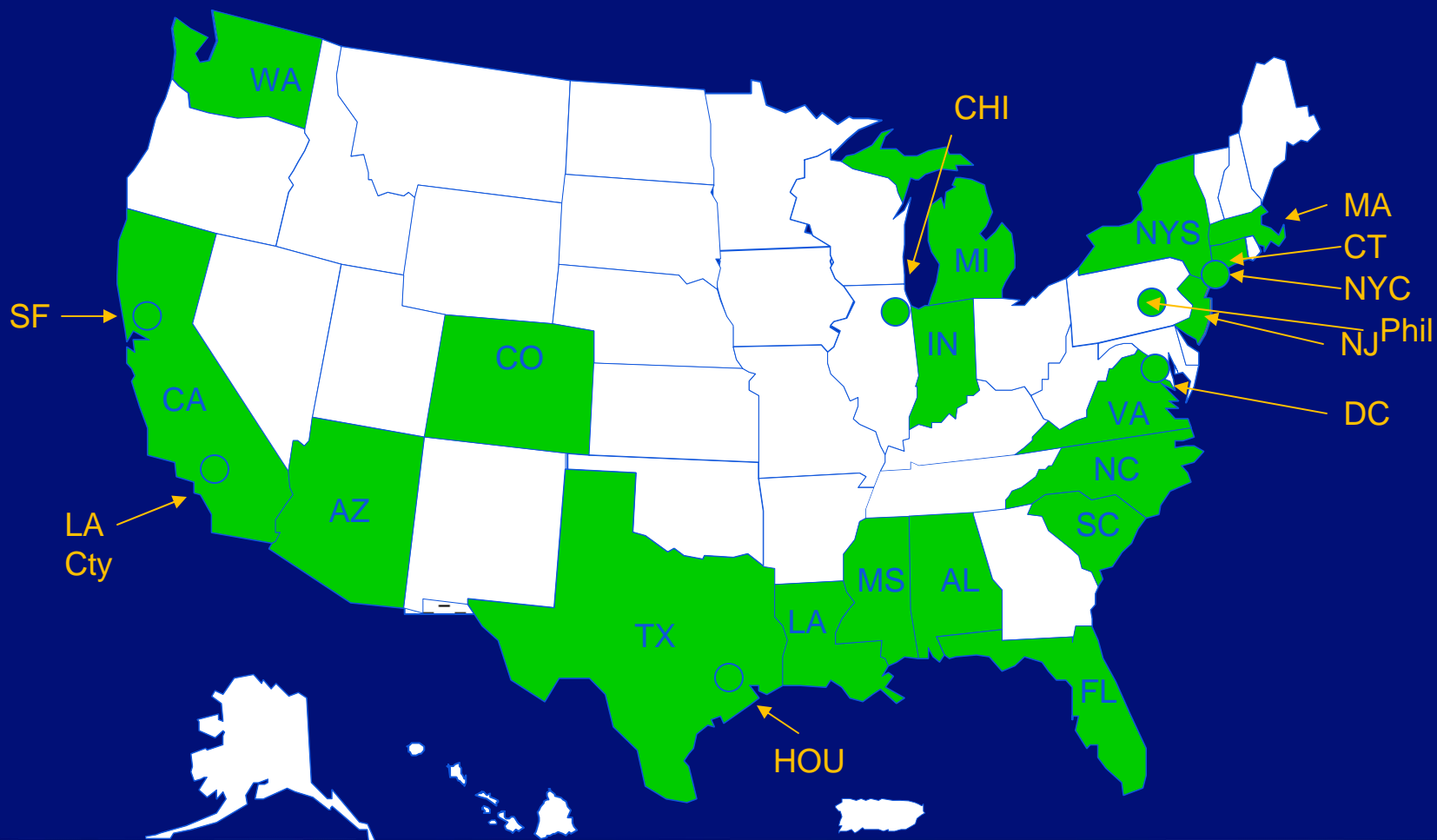
Data Year

2008: confidential, name-based HIV reporting in all states

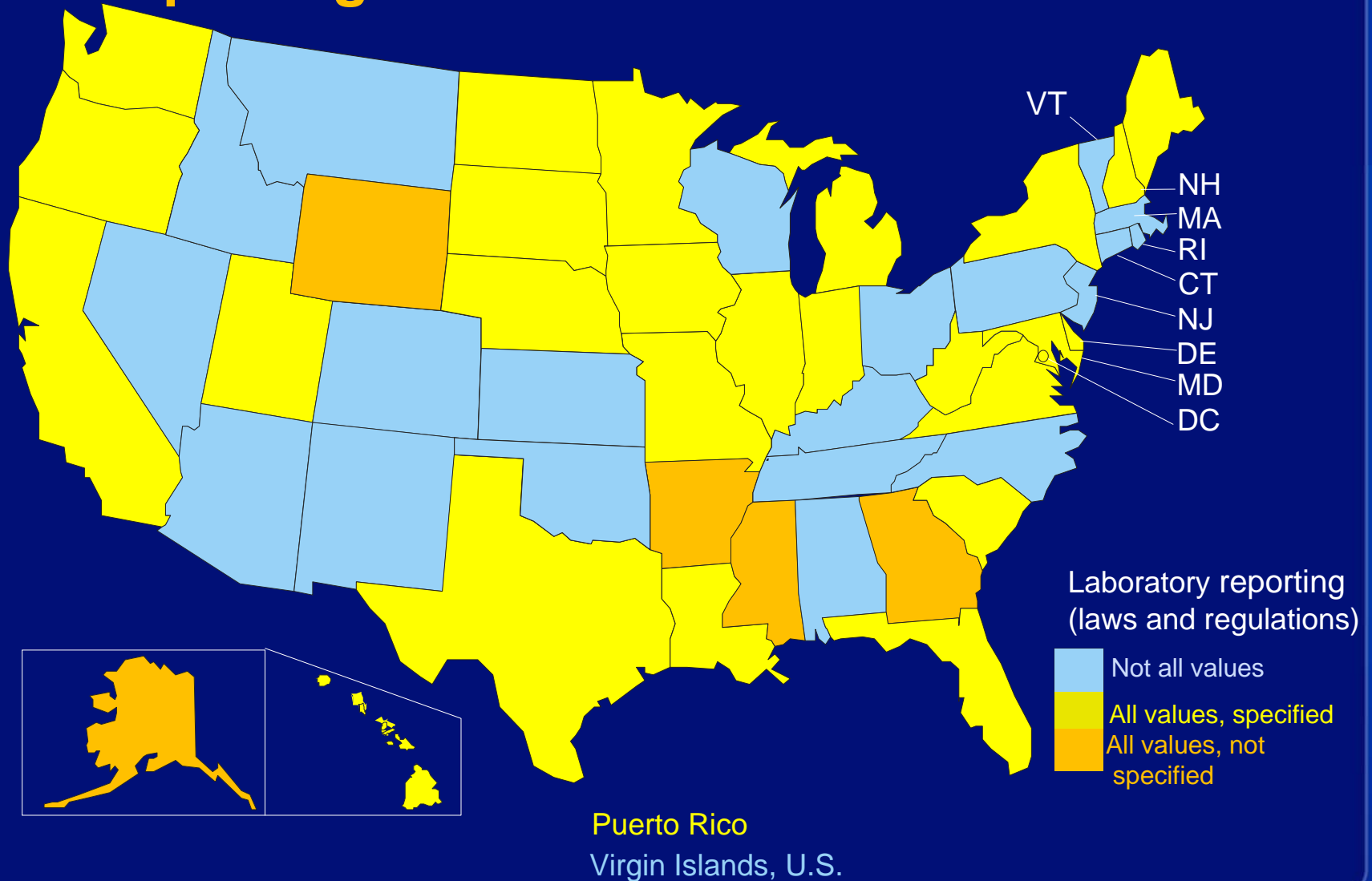
2011: all states included in estimates of HIV diagnoses



National HIV Incidence Surveillance



Areas with Laws and Regulations for Reporting all CD4 and Viral Load Values

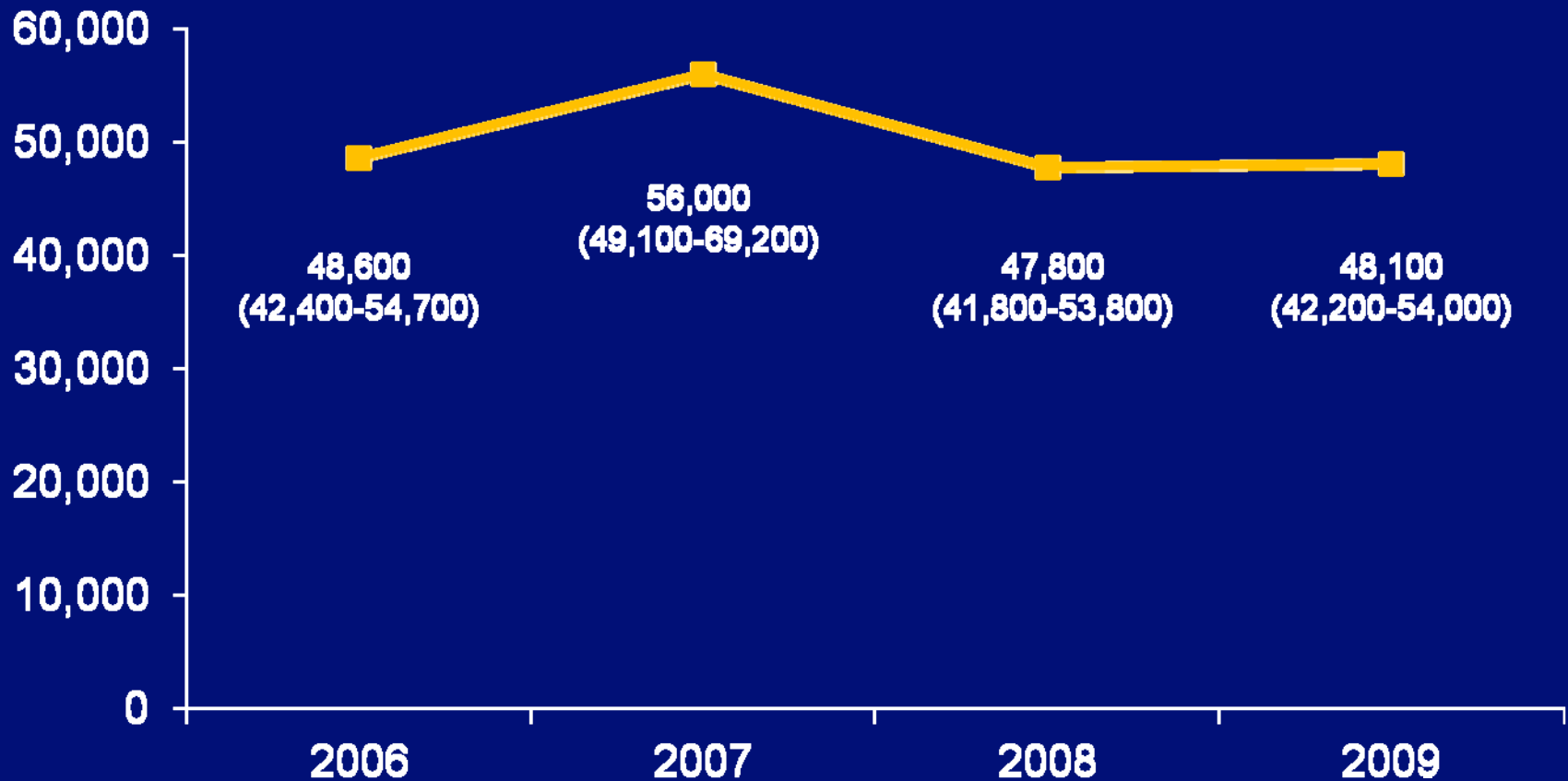


National HIV/AIDS Strategy Implementation Plan

- **VA, CMS, HRSA, CDC, SAMHSA and NIH will jointly consider and issue a report of strategies to encourage providers to collect and report standardized viral load and CD4 data from infected individuals within populations at greatest risk for HIV infection.**
 - **CDC will identify which States and localities collect CD4 and viral load data**
 - **HRSA and CDC will convene a consultation with clinical providers and community-based organizations to develop recommendations for gathering and reporting necessary data to calculate community viral load**
 - **CDC, in consultation with States, will provide technical assistance to localities, particularly those with a heavy disease burden, to collect necessary data to calculate community viral load**

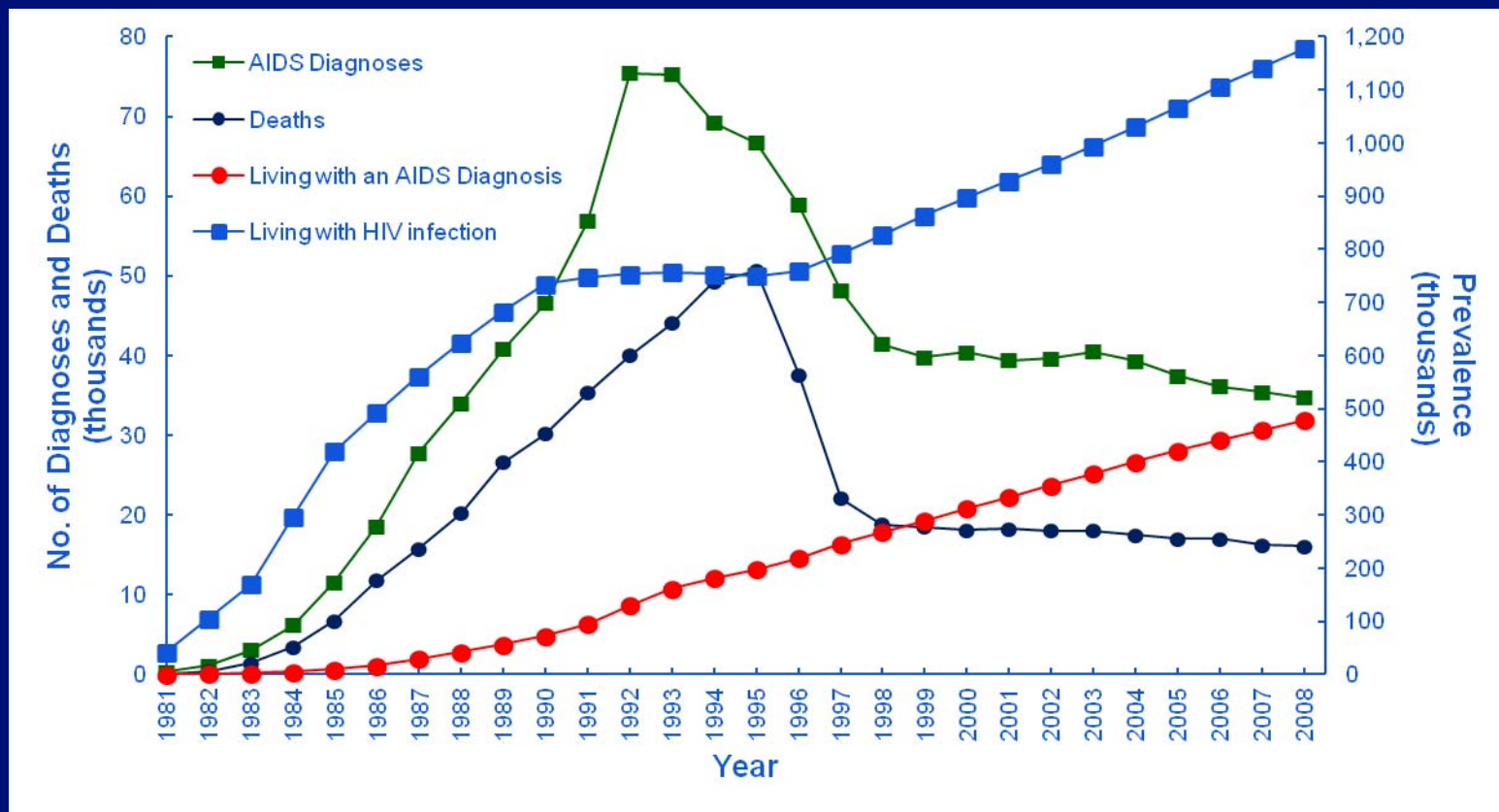
PRELIMINARY DATA

HIV Incidence 2006-2009, United States

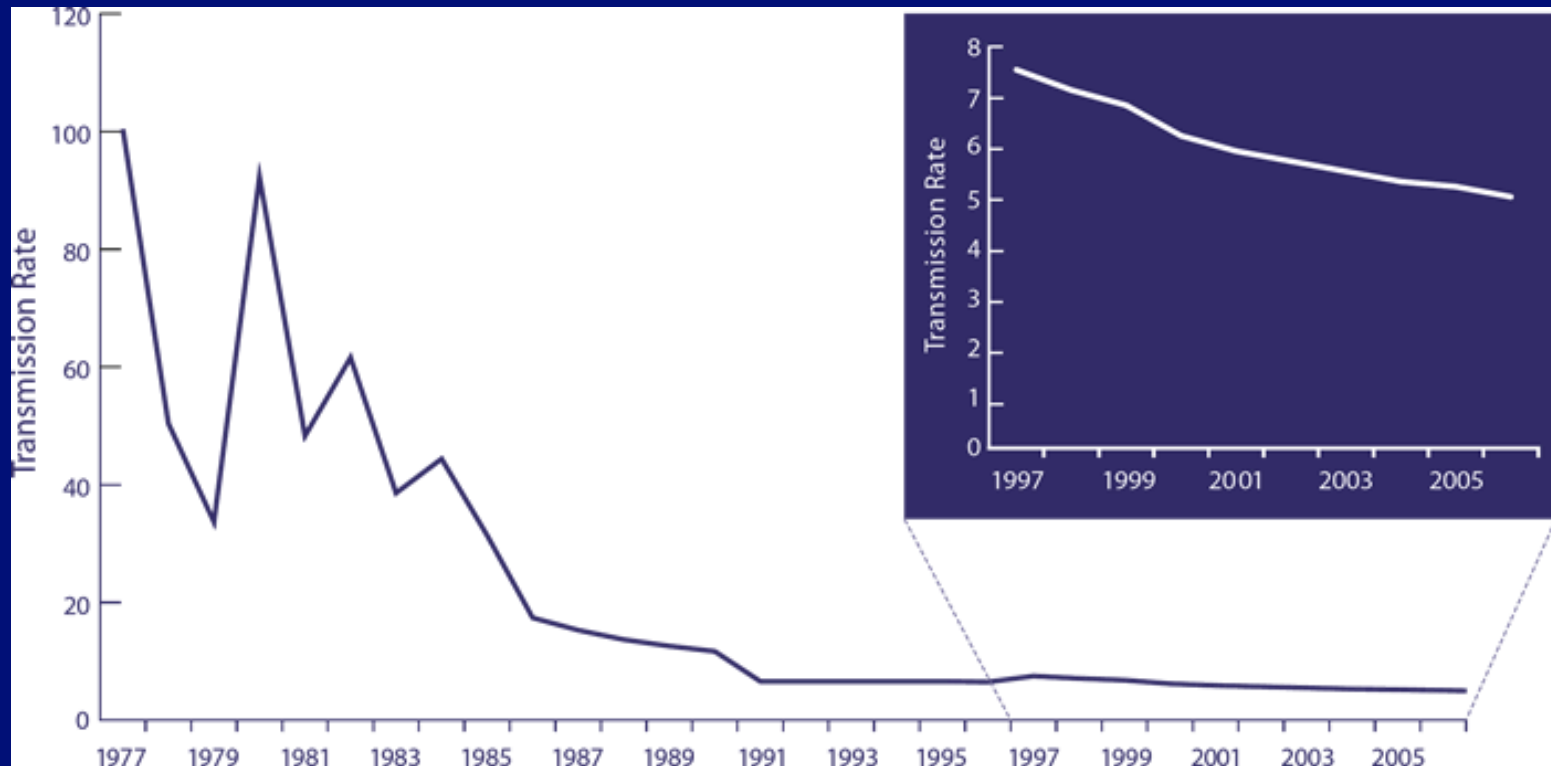


Prejean (2011) Estimated HIV Incidence in the United States, 2006–2009. PLoS ONE 6(8): e17502.
doi:10.1371/journal.pone.0017502

Estimated AIDS Diagnoses, Deaths, Persons Living with an AIDS Diagnosis and Persons Living with HIV Infection (Diagnosed and Undiagnosed) Among Adults and Adolescents – United States, 1981 - 2008

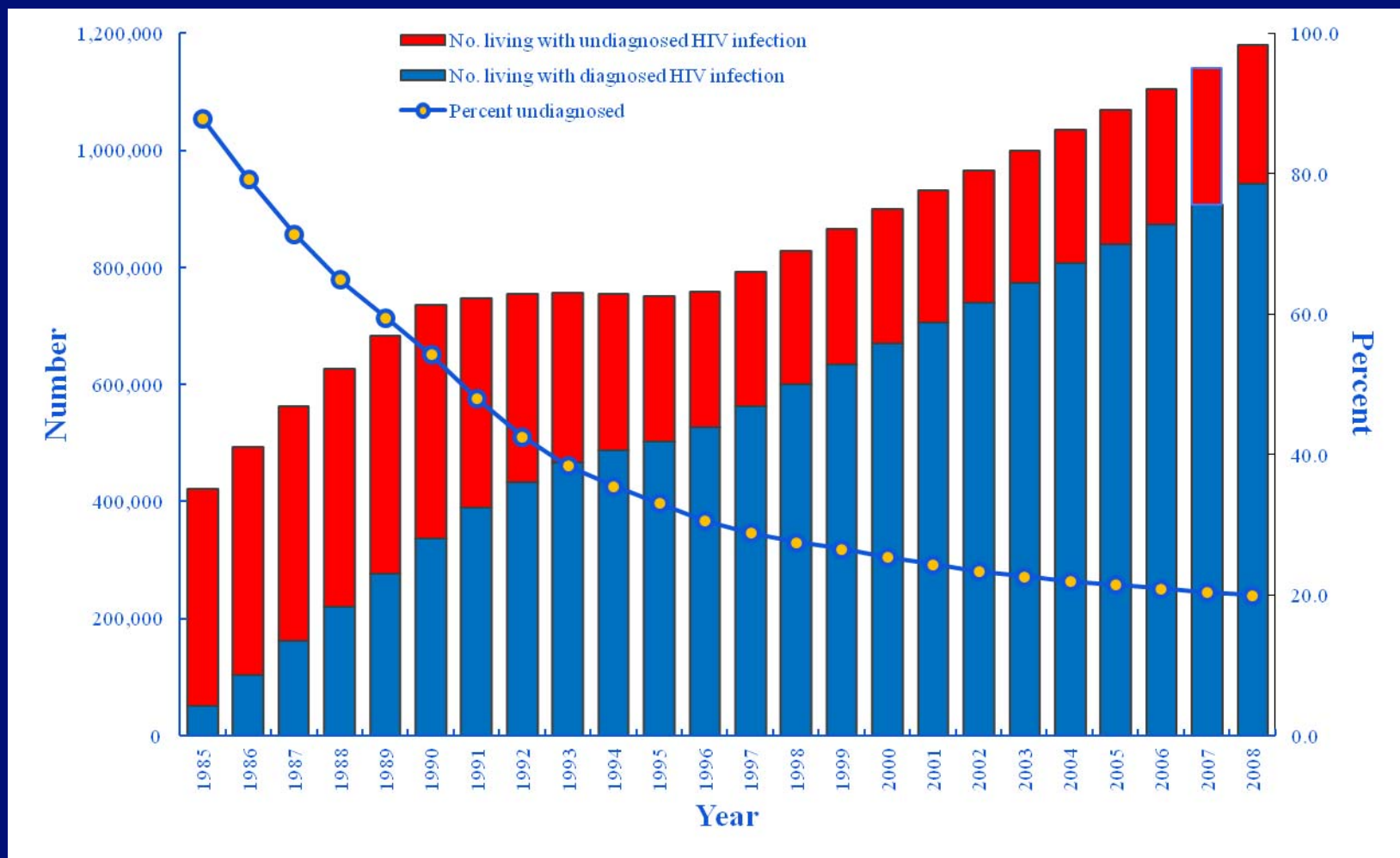


Annual Transmission Rates per 100 Persons Living with HIV, 1977–2006



Holtgrave . Updated Annual HIV Transmission Rates in the United States, 1978-2006. JAIDS 2009;50(2):236-38.

Estimated Number of Adults and Adolescents Living with HIV Infection (Diagnosed and Undiagnosed) and Percent Undiagnosed – United States, 1985 - 2008



Linkage to Care and Continuous Care

□ Data from 13 areas with mandatory laboratory reporting of HIV-related tests and reporting to national HIV surveillance

- 82% of persons diagnosed in 2009 linked to care within 3 months -- NHAS 85 percent

Mahle et al. Using HIV Surveillance-based Indicators to Monitor the National HIV/AIDS Strategy, 13 U.S. Jurisdictions. Presented at 2011 National HIV Prevention Conference.

- 45% of persons living with HIV in 2009 in continuous care – NHAS 80%

Hall et al. Retention in Care of HIV-Infected Adults and Adolescents in 13 U.S. Areas. Presented at 2011 National HIV Prevention Conference.

Reducing HIV-Related Health Disparities

- ❑ Data from 13 areas with mandatory laboratory reporting of HIV-related tests and reporting to national HIV surveillance
- ❑ Persons living with HIV in 2009
- ❑ Viral suppression (≤ 400 copies/mL) among those in care
 - 77% among MSM
 - 65% among blacks/African Americans
 - 74% among Hispanics/Latinos
 - vs. 81% among whites
- ❑ **NHAS – increase by 20 percent in undetectable viral load**

Mahle et al. Using HIV Surveillance-based Indicators to Monitor the National HIV/AIDS Strategy, 13 U.S. Jurisdictions. Presented at National HIV Prevention Conference.

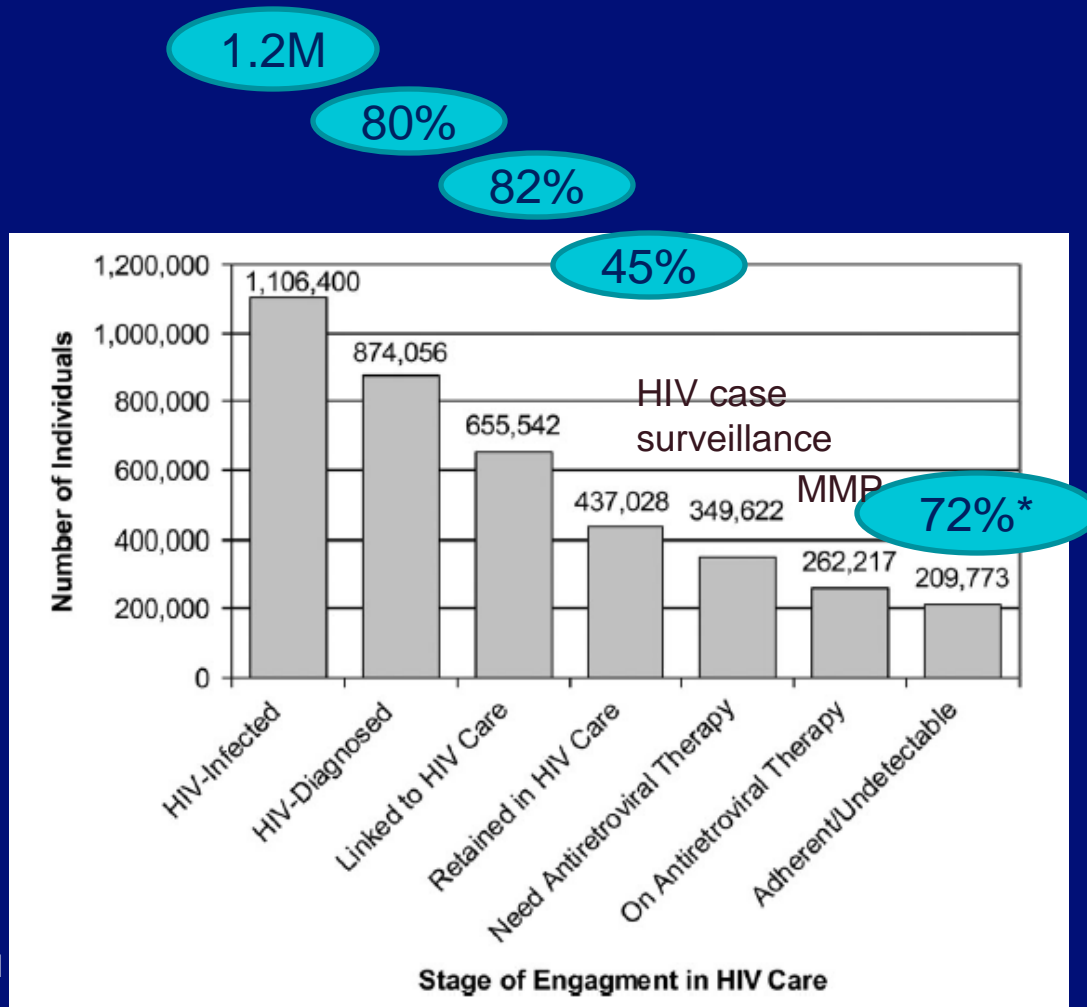
Measuring Engagement in Care HIV Surveillance Data

MMWR 2011;60(21)

MMWR 2011;60(21)

Mahle 2011 NPC

Hall 2011 NPC



Mahle 2011 NPC

*400 copies/mL,
among those in care

Gardner et al. CID 201

Conclusion

- ❑ **Of 9 outcome measures in the National HIV/AIDS Strategy, 8 can be measured with surveillance data**
- ❑ **However, there is a need to**
 - **Support and strengthen HIV ... surveillance activities: There is a need to support existing surveillance methods to identify populations at greatest risk that need to be targeted for HIV prevention services.**

Thank you

The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.

