



# Identifying People Living with Diagnosed HIV in Medical Care but Who Are Not Virally Suppressed: Results from Health Resources and Services Administration-HIV/AIDS Bureau's Updated Approach

Wendy Garland, MPH

Chief Epidemiologist

Program Monitoring & Evaluation

Division of HIV and STD Programs

Los Angeles County Commission on HIV

June 8, 2023





## Presentation Overview

- Follow up to presentation at annual meeting on updated approach to estimate unmet need
- One of three presentations to discuss estimates
  - Late diagnoses (April 2023)
  - Unmet need for medical care, or not in care (May 2023)
  - **In care but not virally suppressed (June 2023)**
- Define unmet need measures and populations, present results and discuss how to use in our work



## What is Unmet Need?

- Defined by HRSA HIV/AIDS Bureau as:  
“ the need for HIV-related health services by individuals with HIV who are aware of their status, but are not receiving regular primary [HIV] health care.”
- Estimated Unmet Need has been a reporting requirement for RWHAP recipients since 2005
- Data and methods to estimate unmet need have evolved with improvements in HIV care and data quality
- New and expanded methodology released 2021 and implemented in 2022

1. "HRSA/HAB Definitions Relate to Needs Assessment," prepared for the Division of Service Systems, HIV/AIDS Bureau by Mosaica: The Center for Nonprofit Development and Pluralism, June 10, 2002.

2005

- Focus on people aware of their HIV/AIDS diagnosis but not in regular HIV medical care
- People living with diagnosed HIV and AIDS with no evidence of care (at least one **viral load [VL]** or **CD4 test** or **ART prescription**) in past 12 months

2017

- Unmet need definition updated to align with HIV Care Continuum definitions
- People living with diagnosed HIV and AIDS with no evidence of care (2 or more **medical visits** or **VL** or **CD4 tests** at least 90 days apart) in past 12 months

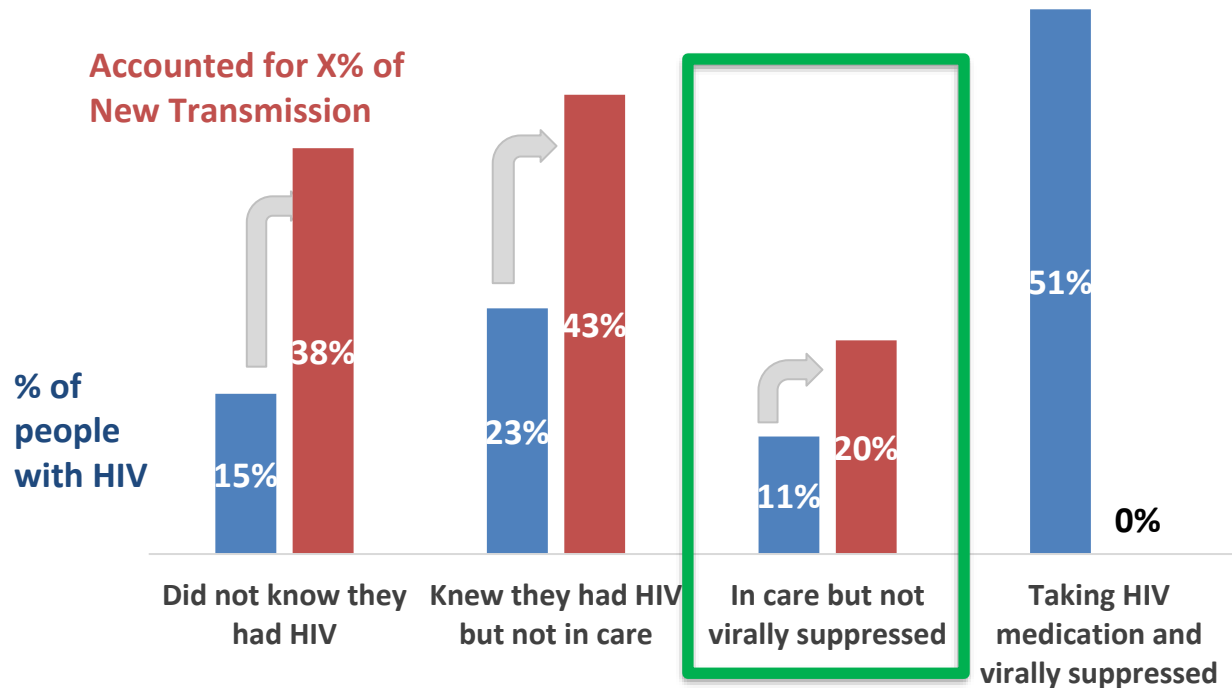
2021

- Revised and expanded unmet need definitions and added RWP population
- People living with **diagnosed HIV** with no evidence of care (at least one **VL or CD4 test**) in the past 12 months
- Adds two new indicators:
  - Persons diagnosed with HIV in the past 12 months with **LATE DIAGNOSIS (Stage 3 [AIDS]** diagnosis or an **AIDS-defining condition**  $\leq$  3 month after HIV diagnosis)
  - Persons living with diagnosed HIV **IN MEDICAL CARE** (at least one VL or CD4 test) who were **NOT VIRALLY SUPPRESSED** in the past 12 months

# Unmet need estimates attempt to measure the gaps between the HIV care continuum

- To reduce HIV transmission

- To improve health outcomes among PLWDH

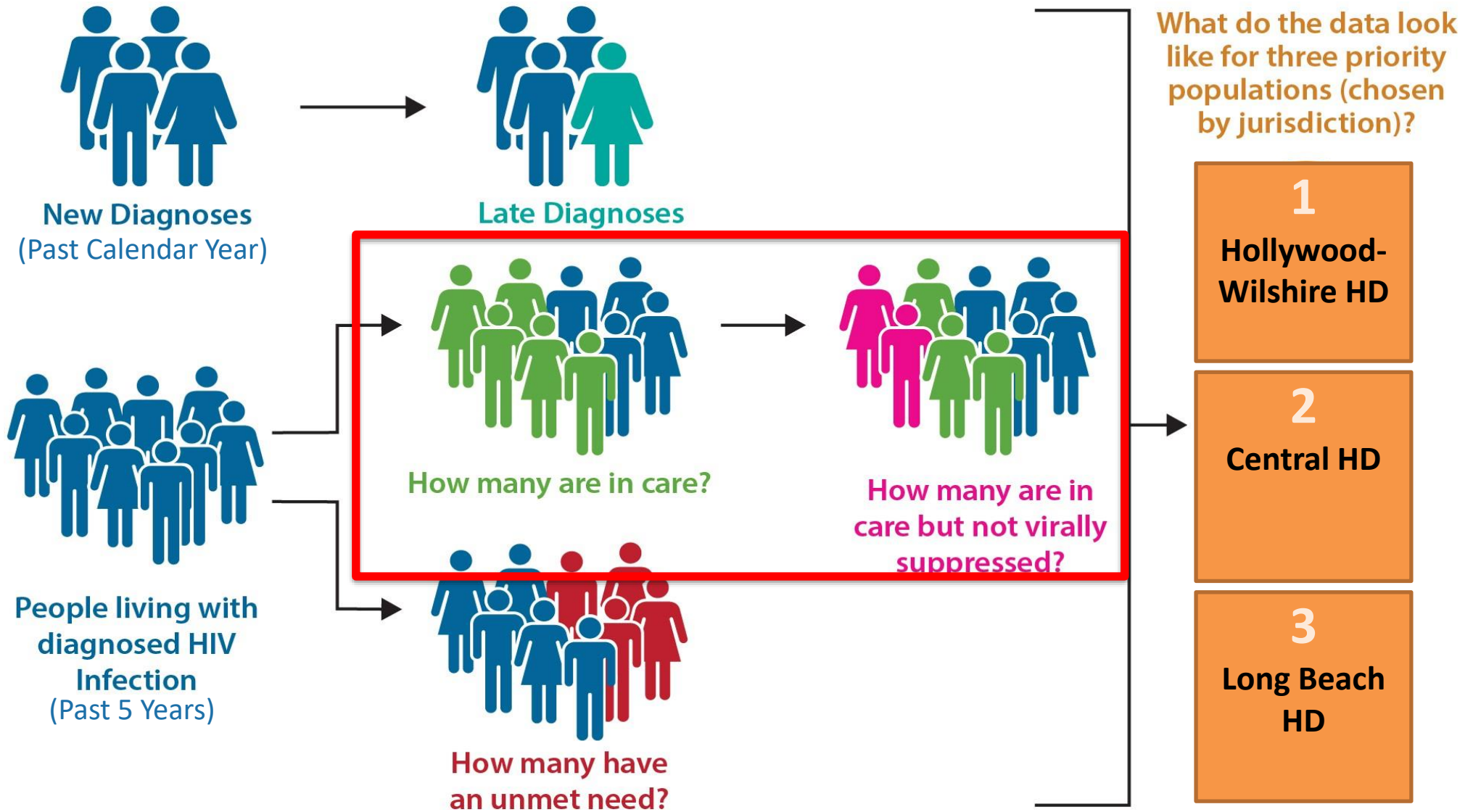


HIV Transmissions in the United States, 2016<sup>1</sup>

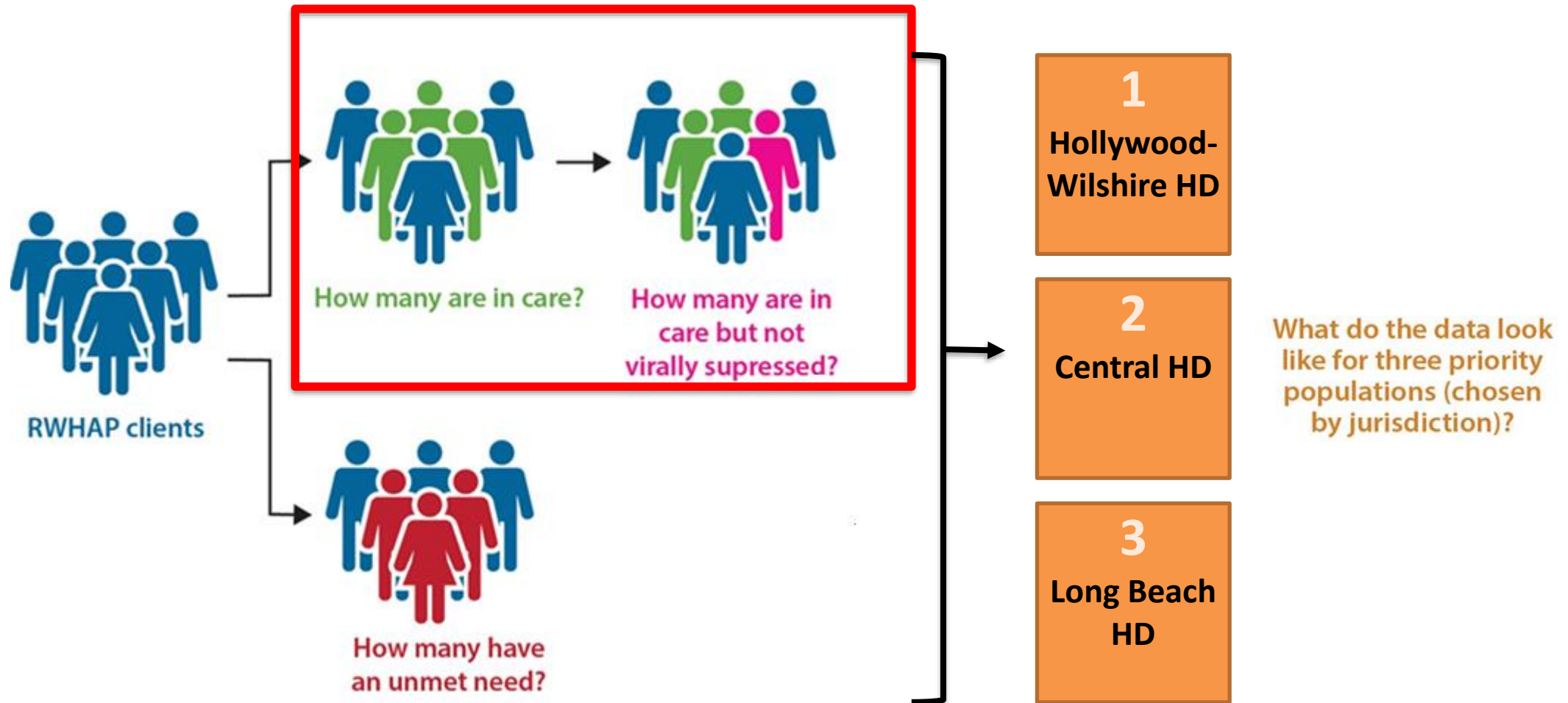
- Start ART early in infection
- Reduce HIV comorbidities, coinfections and complications
- Slow disease progression
- Extend life expectancy
- Reduce HIV-related mortality

1. Li Z, Purcell DW, Sansom SL, Hayes D, Hall HI. *Vital Signs: HIV Transmission Along the Continuum of Care — United States, 2016*. MMWR Morb Mortal Wkly Rep 2019;68:267–272. DOI: <http://dx.doi.org/10.15585/mmwr.mm6811e1>.  
 2. National HIV/AIDS Strategy for the United States (2022-2025). <https://files.hiv.gov/s3fs-public/NHAS-2022-2025.pdf>

# LAC Populations for Estimates of Unmet Need



# RWP Populations for Estimates of Unmet Need





# Approaches to Identify Disparities and Gaps - Examples

## Across Group Comparison\*

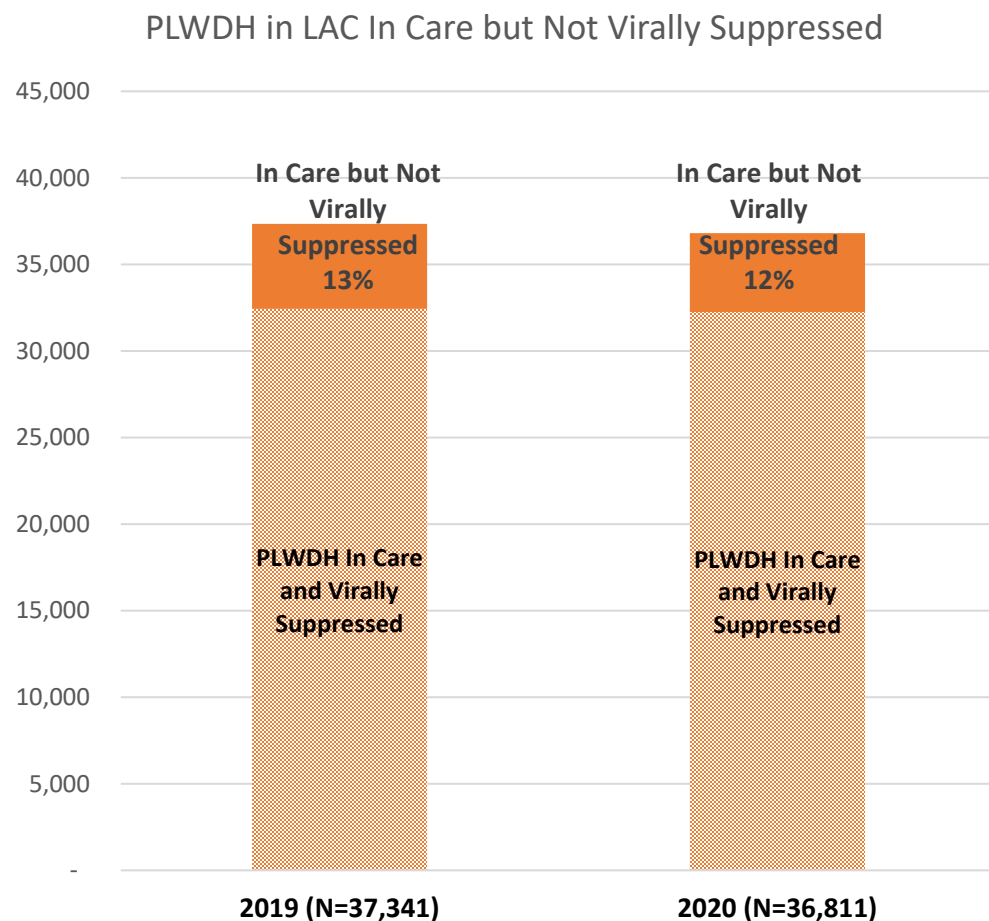
- Helpful for describing a population
  - Latino males made up **24%** of LAC residents in 2020
- Identify disparities across populations
  - Latino males made up **53%** of LAC residents newly diagnosed HIV in 2020
  - Proportional difference between residents who were Latino males (**24%**) compared to new diagnoses who were Latino males (**53%**)

## Within Group Comparisons\*

- Helpful to understand how specific groups are impacted compared to each other
  - Linkage to care among 170 newly diagnosed Hollywood-Wilshire HD residents (**85%**) compared to 126 newly diagnosed among Central HD residents (**67%**) compared to 92 newly diagnosed among Long Beach HD residents (**80%**)



# Considerations when thinking about this data



- These data represent the characteristics of:
  - LAC residents living with confirmed HIV diagnoses in 2020 reported to DHSP
  - RWP clients who accessed services in 2020
- These data do not reflect
  - Why PLWDH may or may not access HIV care services
- Unmet need is estimated using HIV surveillance and program data – both may be incomplete due to reporting delay. For example, changes in unmet need from 2019 to 2020 may be due to
  - Decreased laboratory access or availability due to COVID-19
  - Fewer people seeking care services



# Unmet Need Estimates: In Care but Not Virally Suppressed among PLWDH and RWP Clients in LAC, 2020



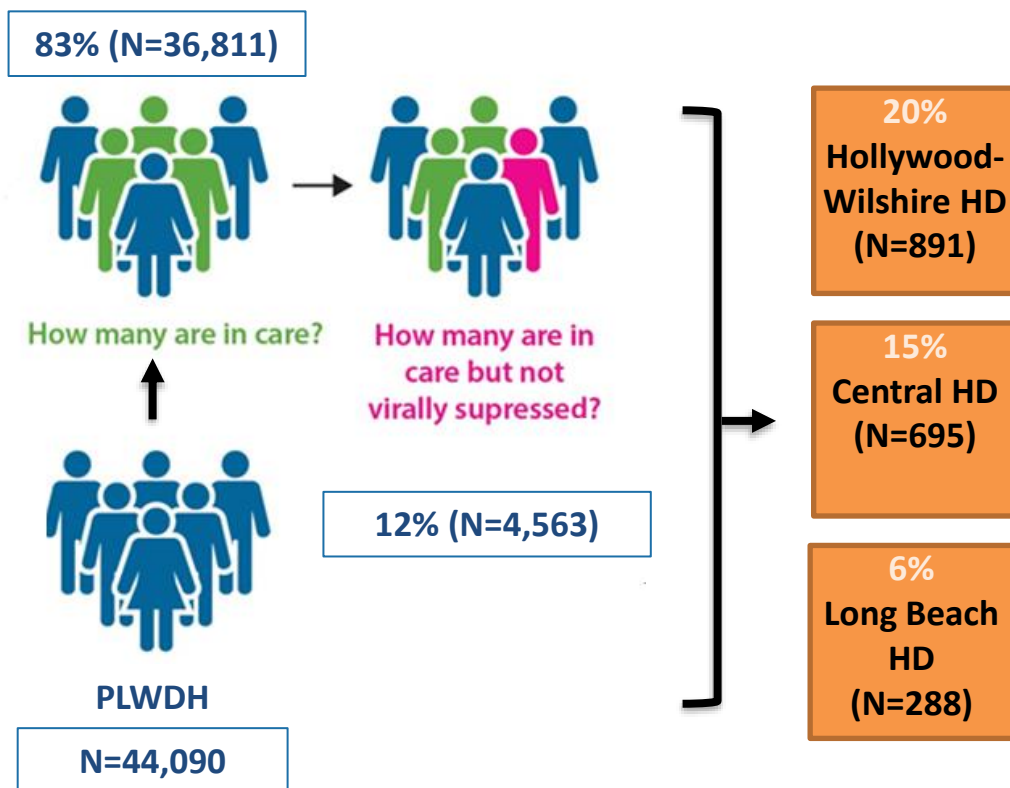
# Context for Unmet Need for Adherence Support

- EHE Goal: Increase percentage of PLWDH with viral suppression to 95% by 2025
  - 61% among all PLWDH in LAC regardless of care status<sup>1</sup>
  - 92% among PLWDH **in care** in LAC<sup>1</sup>
- Among a representative sample of PLWDH in LAC, 79% were prescribed ART<sup>1</sup>
  - Of those on ART, 46% reported missing at least one dose in the past 30 days
  - The main reason for missed ART doses was forgetting to take their medicine
- Limitations to ART prescription and adherence data
  - Only reported for a limited number of RWP services

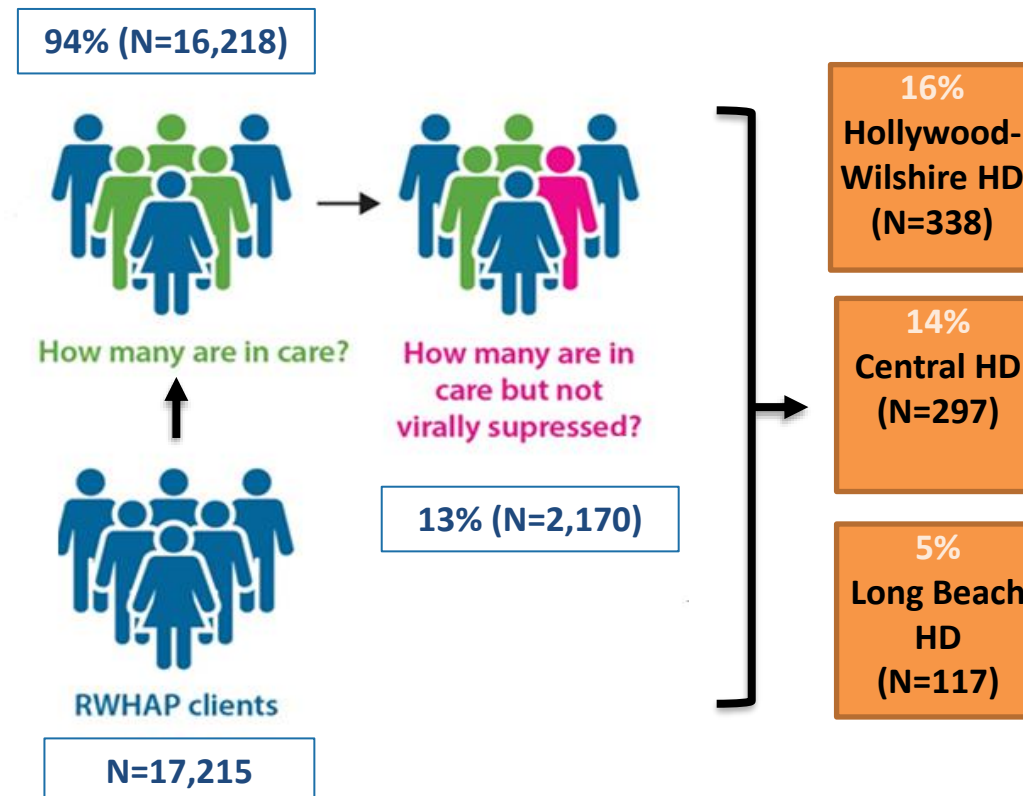


# Unmet ART Adherence Need among LAC PLWDH and RWP Clients, 2020

## LAC 5-Year Population



## RWP Clients

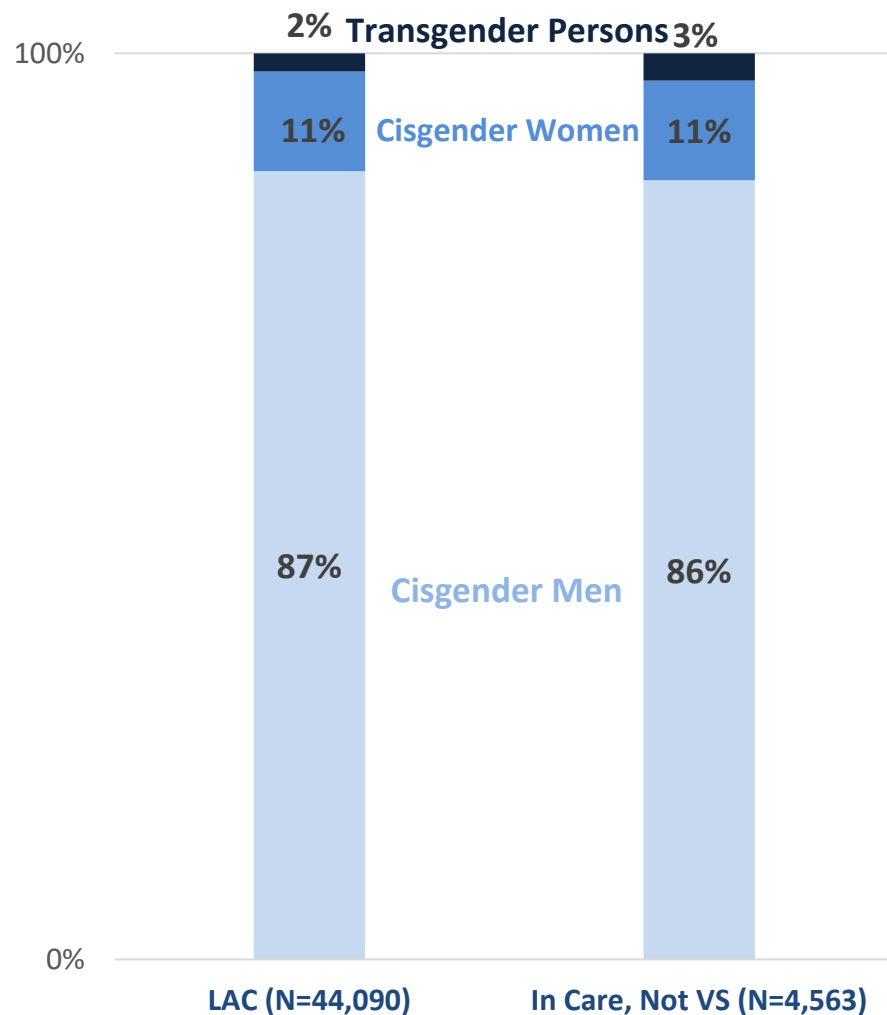


- Unmet need for ART adherence support was comparable between LAC and RWP
- In LAC and in the RWP, unmet adherence need was highest among residents of Hollywood-Wilshire health district

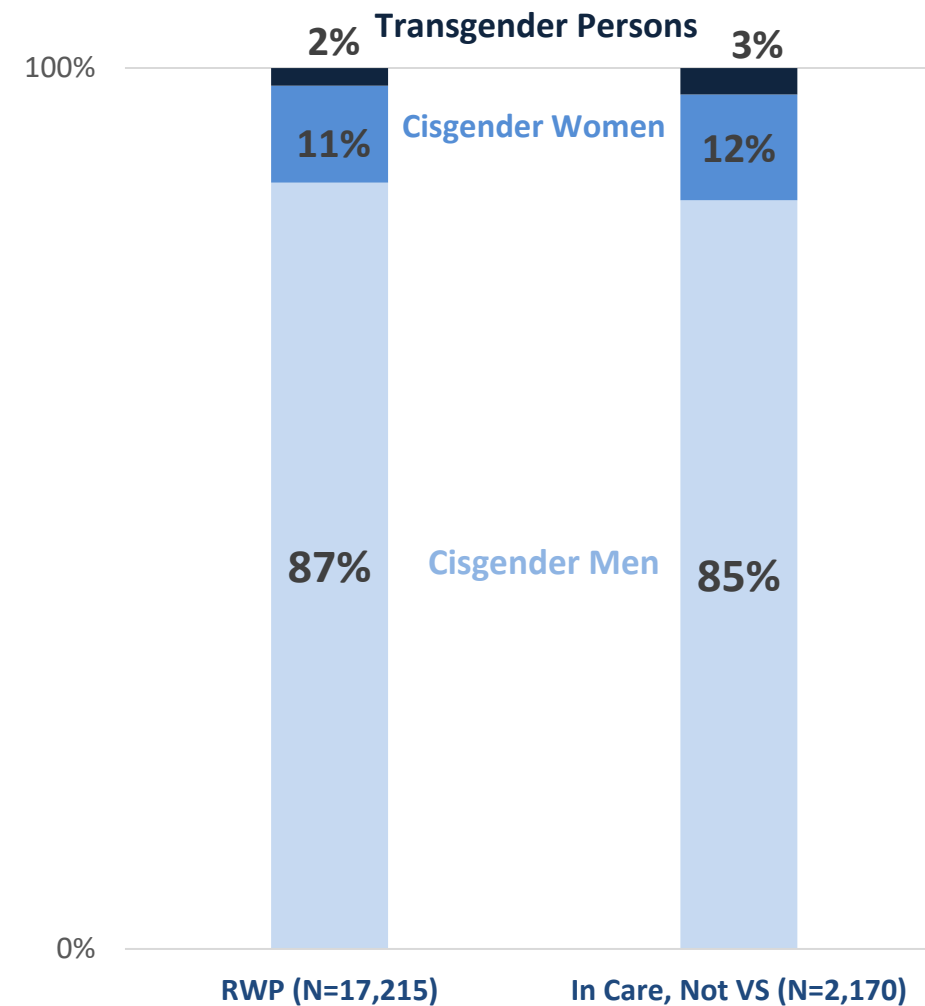


# Unmet Need for ART Adherence Support by Gender Identity, 2020

## LAC PLWDH



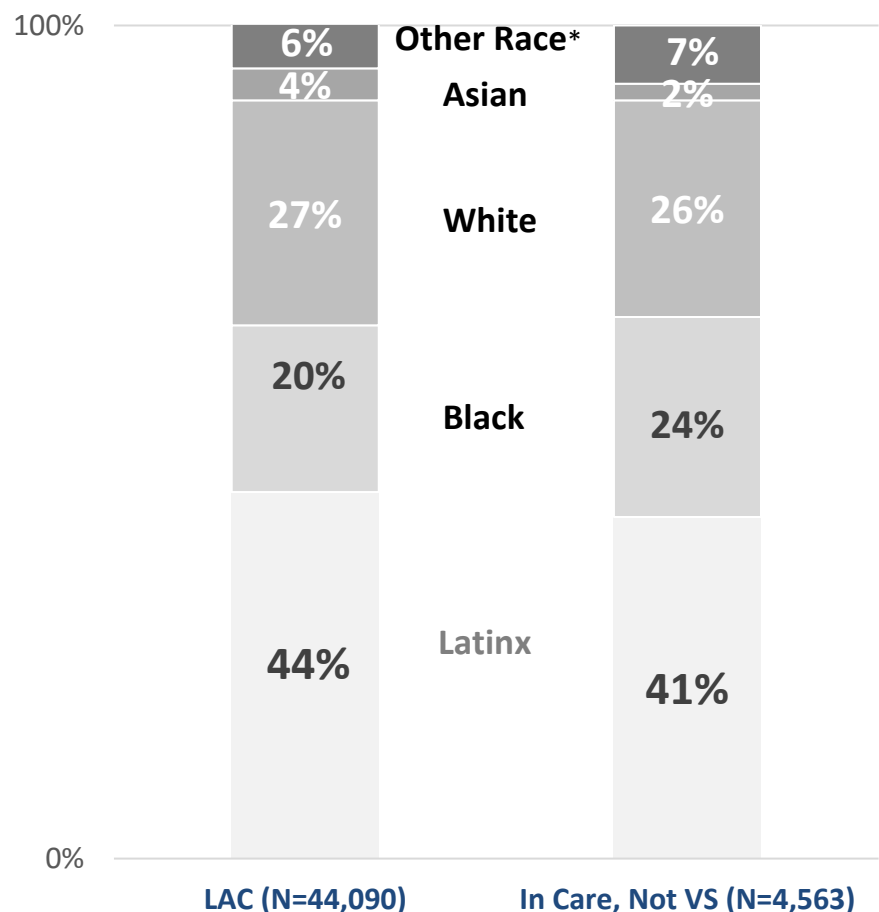
## RWP CLIENTS



- The largest percent of PLWDH and RWP clients were cisgender men
- Cisgender men represented the majority of individuals in care without VS

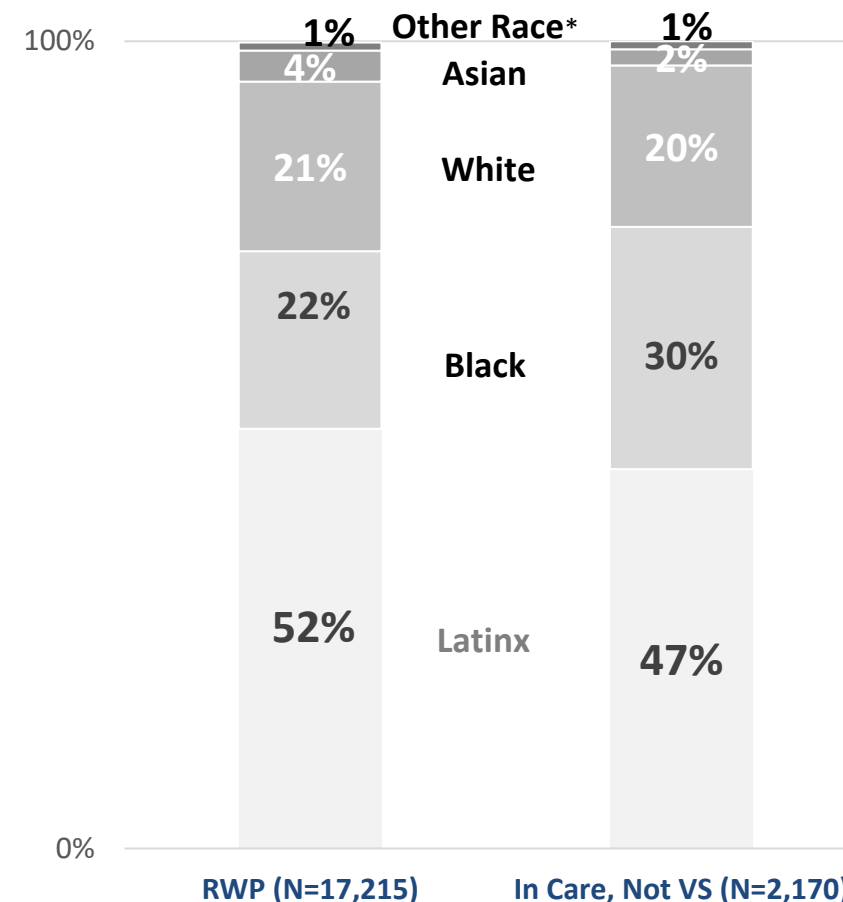
## Unmet Need for ART Adherence Support by Racial/Ethnic Group, 2020

### LAC PLWDH



- A higher percent of RWP clients were Latinx vs. LAC
- Fewer RWP clients were of other racial/ethnic groups compared to LAC
- Unmet need for adherence support was disproportionately higher among LAC and RWP clients who were Black race/ethnicity compared to their population size

### RWP CLIENTS

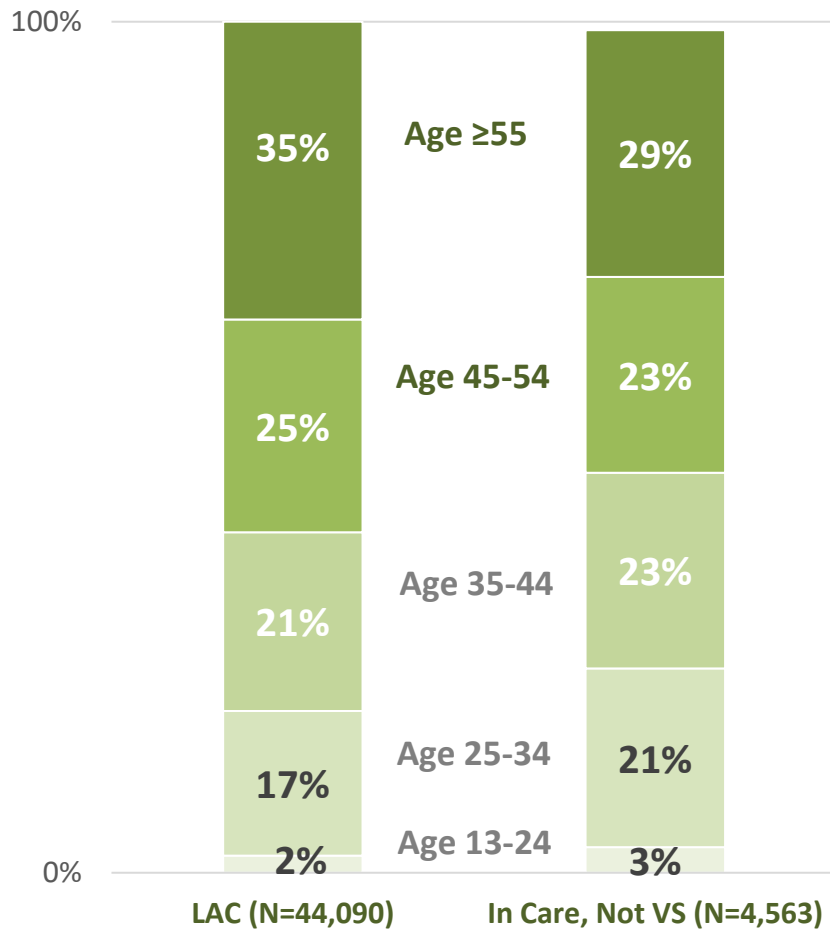


\*Persons of other racial/ethnic groups include: Multiple race, American Indian/Alaska Native, and Native Hawaiian/Pacific Islander, race/ethnicity not reported.



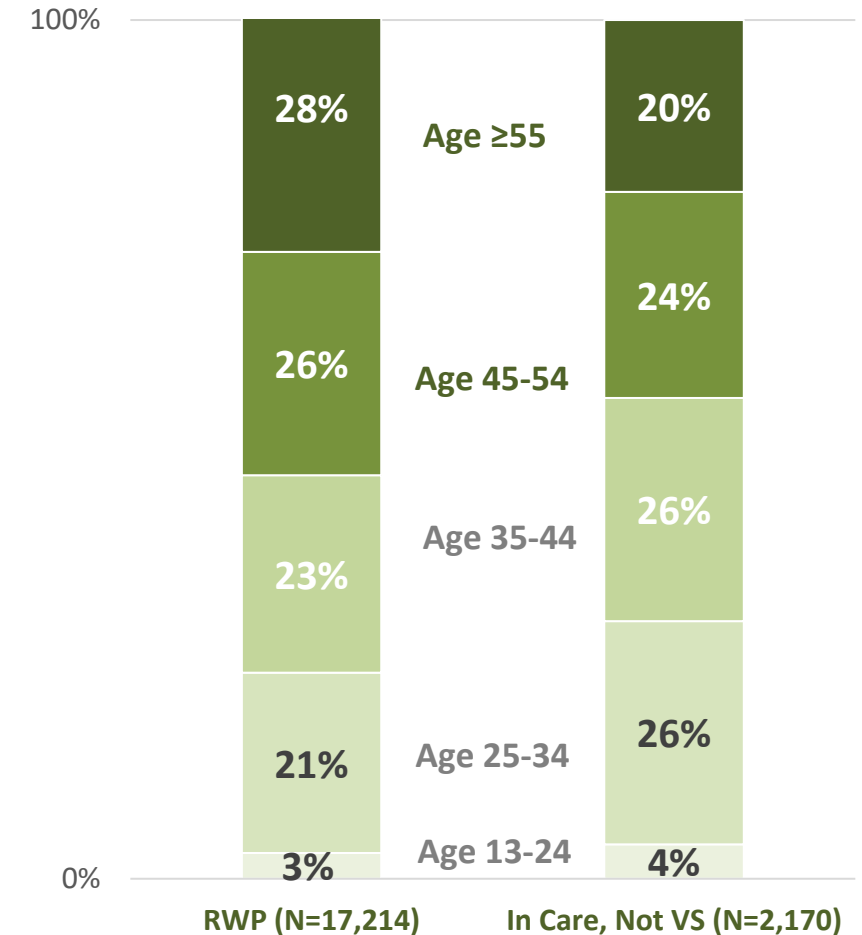
## Unmet Need for ART Adherence Support by Age Group, 2020

### LAC PLWDH



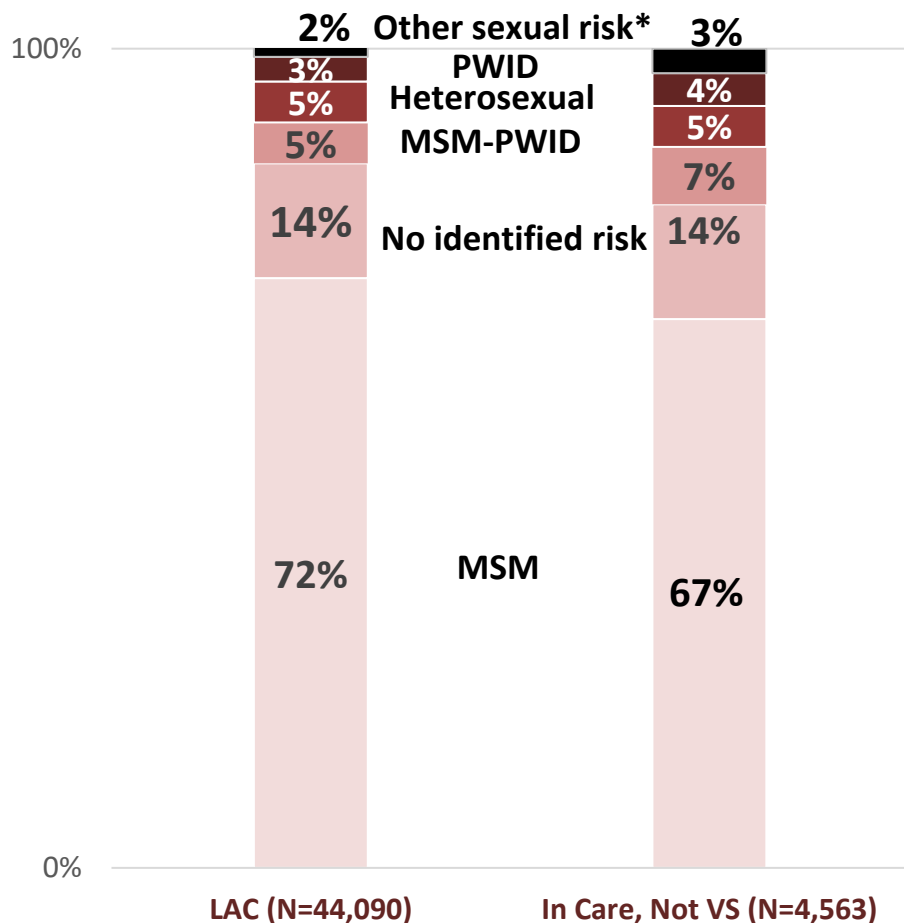
- The majority LAC PLWDH and RWP clients were ≥ age 45
- Among LAC PLWDH, 52% of LAC PLWDH ≥ age 45 had unmet adherence need compared to 44% of RWP clients
- While 40% of PLWDH in LAC were <age 45 they represented 49% of those with unmet adherence need
- Similarly, clients <age 45 represented 47% of RWP clients but 56% of unmet need

### RWP CLIENTS

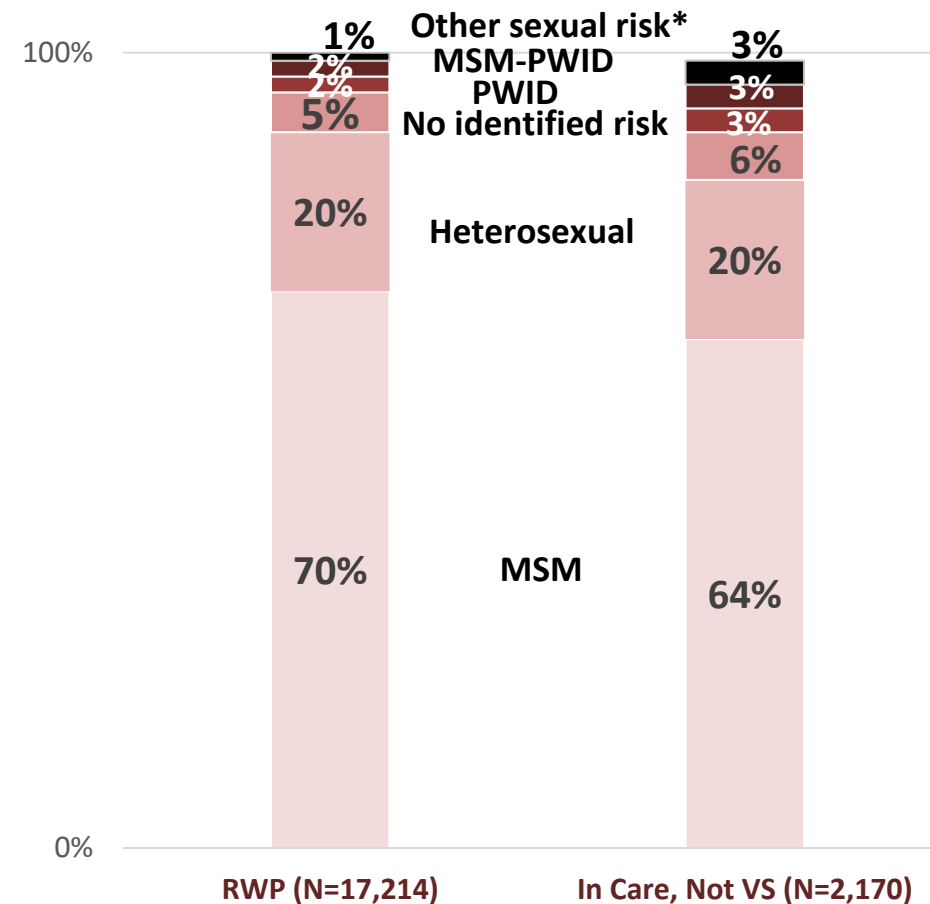


## Unmet Need for ART Adherence Support by Risk Category, 2020

### LAC PLWDH



### RWP CLIENTS



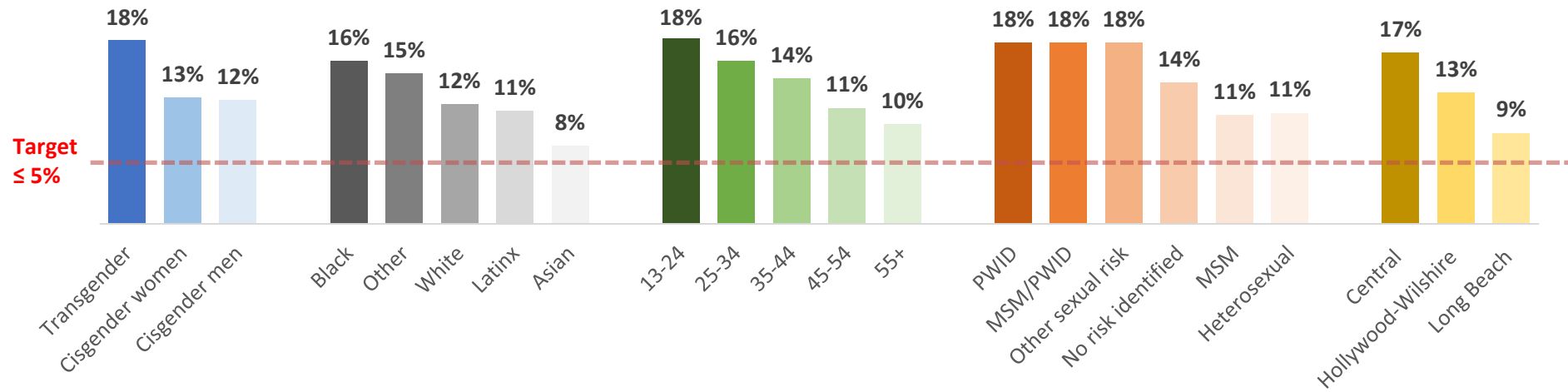
- The majority of LAC PLWDH and RWP clients were MSM
- Relative to population size, MSM represented a lower percent of LAC PLWDH and RWP clients with unmet adherence need

Definitions: MSM: Men who have sex with men; PWID: People who inject drugs

\*Other sexual risk include: sexual contact among transgender individuals, sexual contact and PWID among trans individuals.



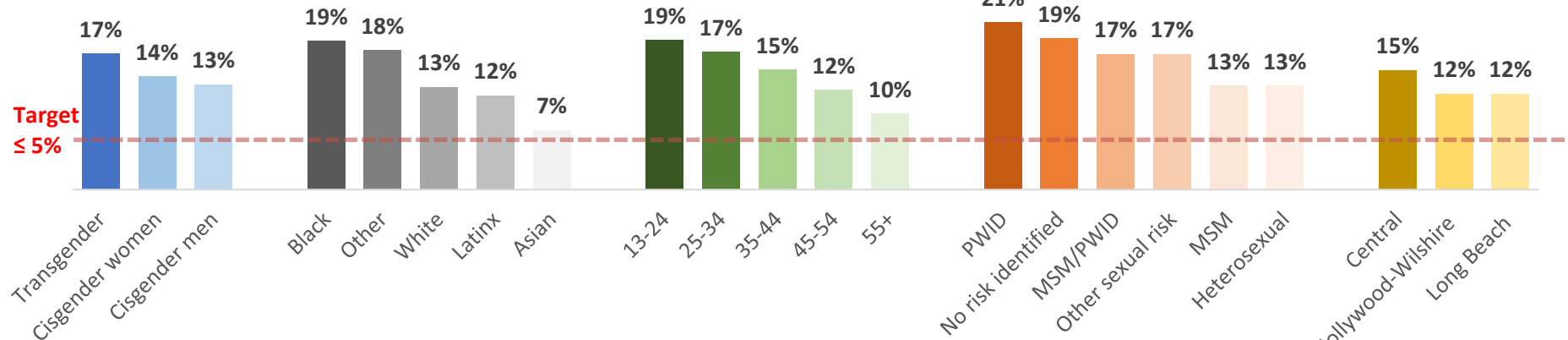
## LAC PLWDH



Unmet need for adherence support within groups was similar for LAC and RWP

Neither population met the EHE goal of  $\leq 5\%$  unsuppressed viral load

Trans persons, those of Black or other racial/ethnic groups, younger persons, PWID and those residing in Central HD had the highest levels of unmet adherence need



## RWP CLIENTS

# Key Takeaways

## Population-level (LAC)

Largest burden of unmet adherence need (in care, not VS)

- Cisgender men
- Latinx PLWDH
- $\geq$  age 55
- MSM
- Hollywood-Wilshire HD

Unequal % of PLWDH vs unmet adherence need

- Black PLWDH
- < age 45
- Central HD

Highest % of unmet adherence need within population

- Transgender persons
- Black PLWDH
- Age 13-24
- PWID
- Central HD

## Program-level (RWP)

Largest burden of unmet adherence need (in care, not VS)

- Cisgender men
- Latinx clients
- Aged 25-44
- MSM
- Hollywood-Wilshire HD

Unequal % of RWP clients vs unmet adherence need

- Black clients
- Under 45 years of age
- Central HD

Highest % of unmet adherence need within population

- Transgender clients
- Black clients
- Aged 13-24
- PWID
- Central HD



# Questions



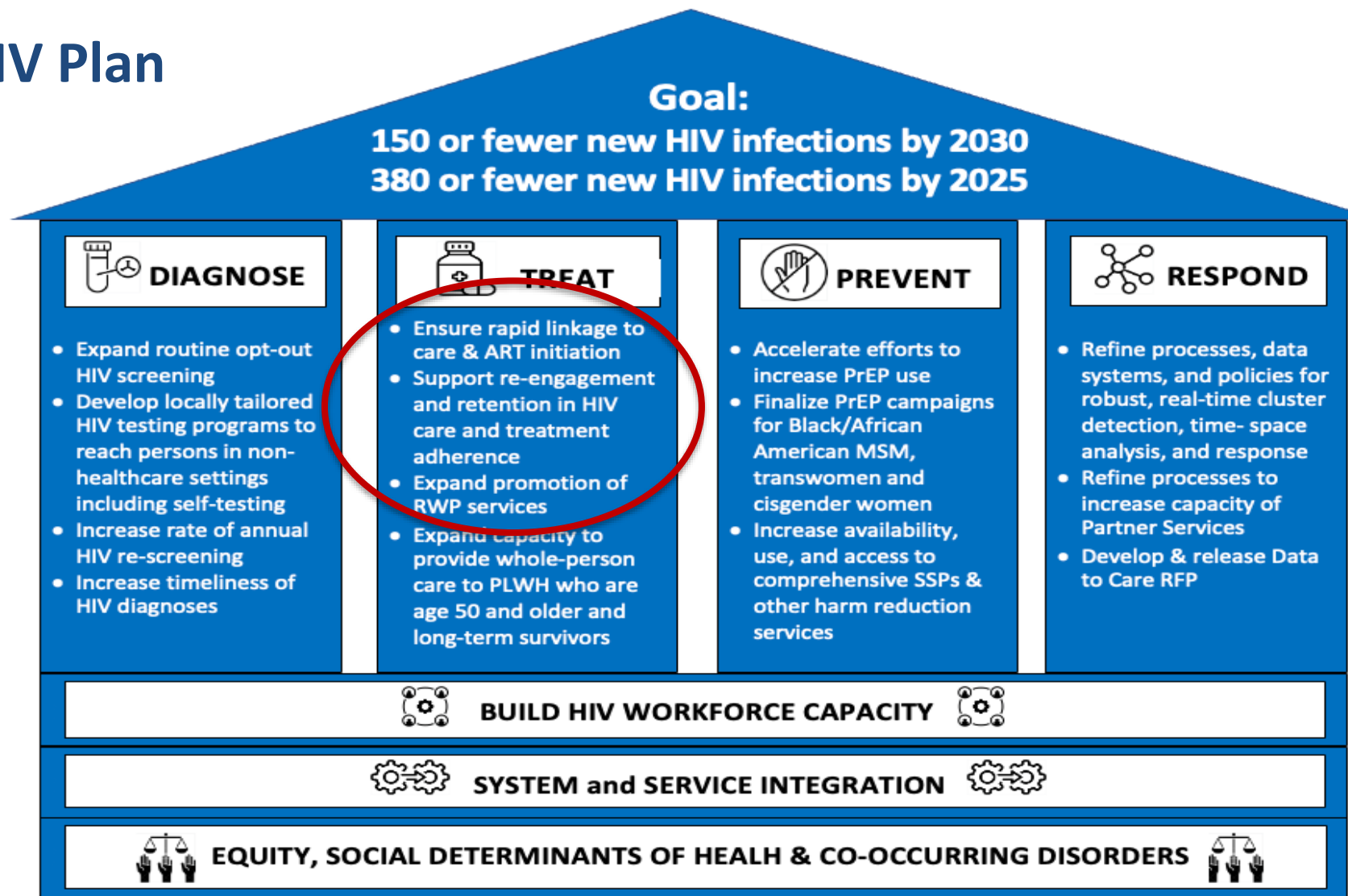
## Discussion – using estimates of unmet need for ART adherence support for planning



# LAC Comprehensive HIV Plan Snapshot

## Priority Populations

- Latinx MSM
- Black MSM
- Transgender persons
- Cisgender women of color
- PWID
- Persons < age of 30
- PLWH ≥age 50



# What are strategies to improve ART adherence?



- Identify and address barriers to ART adherence at the patient-level<sup>1</sup>
  - Behavioral health – stigma, mental health issues (depression, anxiety), substance use
  - Client-centered supportive services (housing, poverty, benefits, transportation)
  - Adherence tools – pill boxes, apps, reminders
  - Incentives or directly administered therapy
- Provider-level
  - EMR reminders to clients for medications and refills; flag patients with unsuppressed VL for follow-up
  - Medication side effects
- Health-department-level -Directly administered therapy?
- Novel approaches – incentives, long-acting injectable ART
- Focus on those populations that account for a large proportion of PLWDH with unsuppressed viral load in LAC
  - Black sub-populations, women and transgender persons, persons aged 30-49, PWID and those residing in the Central HD

1. Thompson, et al. <https://www.acpjournals.org/doi/full/10.7326/0003-4819-156-11-201206050-00419>

2. Division of HIV and STD Programs, Department of Public Health, County of Los Angeles. HIV Surveillance Annual Report, 2021. <http://publichealth.lacounty.gov/dhsp/Reports/HIV/2021AnnualHIVSurveillanceReport.pdf>.



# How can our services improve viral suppression and reduce unmet need?

- Expanding access to RWP wraparound services
- Facilitate ART access and adherence
  - Rapid ART and same-day appointments
  - Peer-support?
  - Update Medical Care Coordination adherence intervention
  - Provider detailing?
  - U=U social marketing?
- Expand access for HIV medications
  - Uninterrupted coverage
  - Mobile or street-based clinics that dispense ART
  - Pharmacy collaboration
- Linguistically and culturally appropriate services



## Next Steps for Unmet Need Estimates

- Further analyses are needed to
  - Identify predictors of unmet need among LAC residents
  - Include housing status
- Summary report completed mid-2023





**THANK  
YOU!**

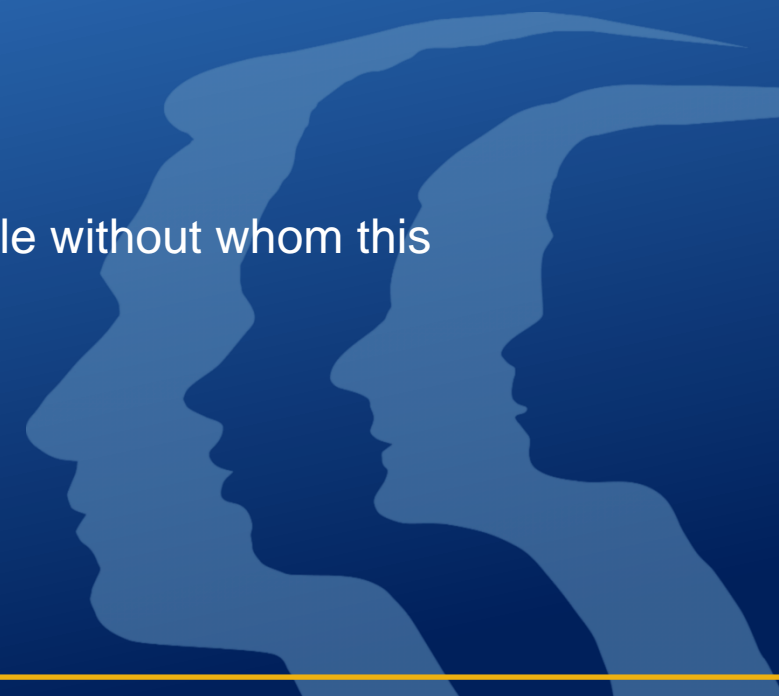
Special thanks to the following people without whom this presentation would not be possible:

Sona Oksuzyan, PhD

Janet Cuanas, MPP

Virginia Hu, MPH

Michael Green, PhD, MHSA



## References and Resources

- Webinar video and slides: Enhanced Unmet Need Estimates and Analyses: Using Data for Local Planning <https://targethiv.org/library/enhanced-unmet-need-estimates-and-analyses-using-data-local-planning>
- Webinar video and slides: <https://targethiv.org/library/updated-framework-estimating-unmet-need-hiv-primary-medical-care>
- Methodology for Estimating Unmet Need: Instruction Manual <https://targethiv.org/library/methodology-estimating-unmet-need-instruction-manual>