Highlight of 2021 HIV/AIDS Epidemiology in Honolulu County

Fenfang Li, PHD, MPH Division of Communicable Disease & Public Health Nursing State of Hawaii Department of Health

2024

The time is now.

Ending the HIV Epidemic

US National HIV/AIDS Strategy

2020

♦≥90% aware of positive HIV

status

♦≥85% linked to care

♦ ≥80% viral suppression

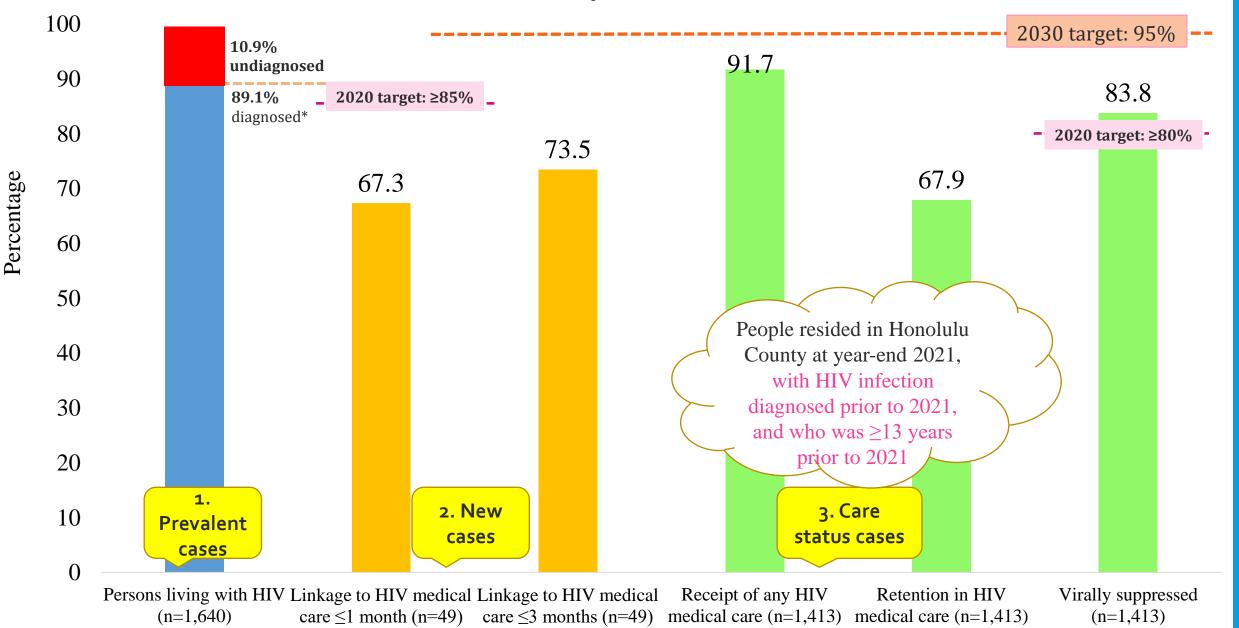
Ending the HIV Epidemic Initiative 2030 ♦ ≥95% aware of positive HIV status ♦ ≥95% linked to care ♦ ≥95% viral suppression

Presentation Outline

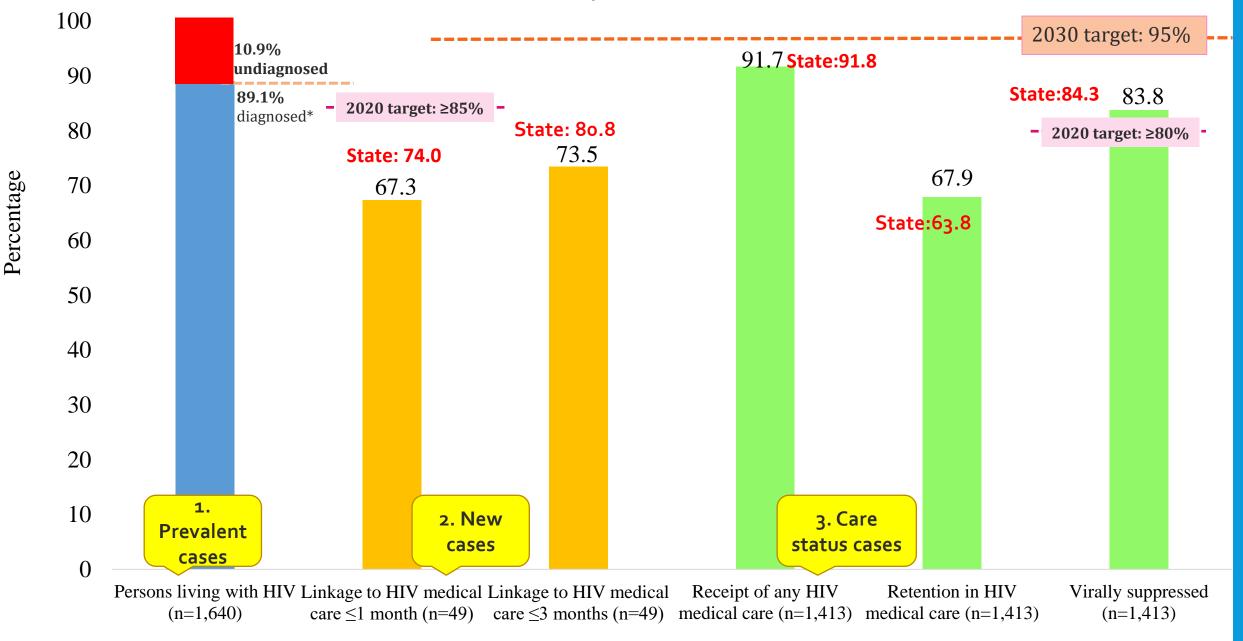
2021 HIV Care Continuum

- Knowledge of HIV status
- New diagnosis
- Linkage to HIV medical care
- *****Viral suppression

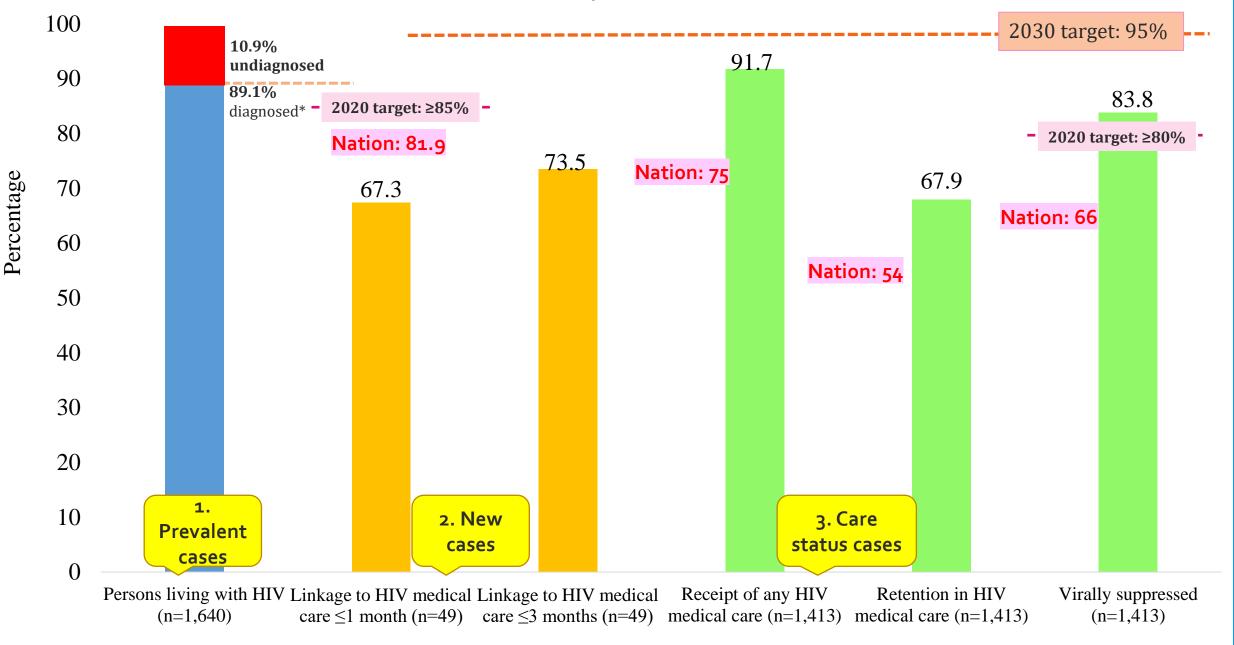
Honolulu County 2021 HIV Care Continuum



Honolulu County 2021 HIV Care Continuum



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Knowledge of HIV status

Number of people living

with diagnosed HIV

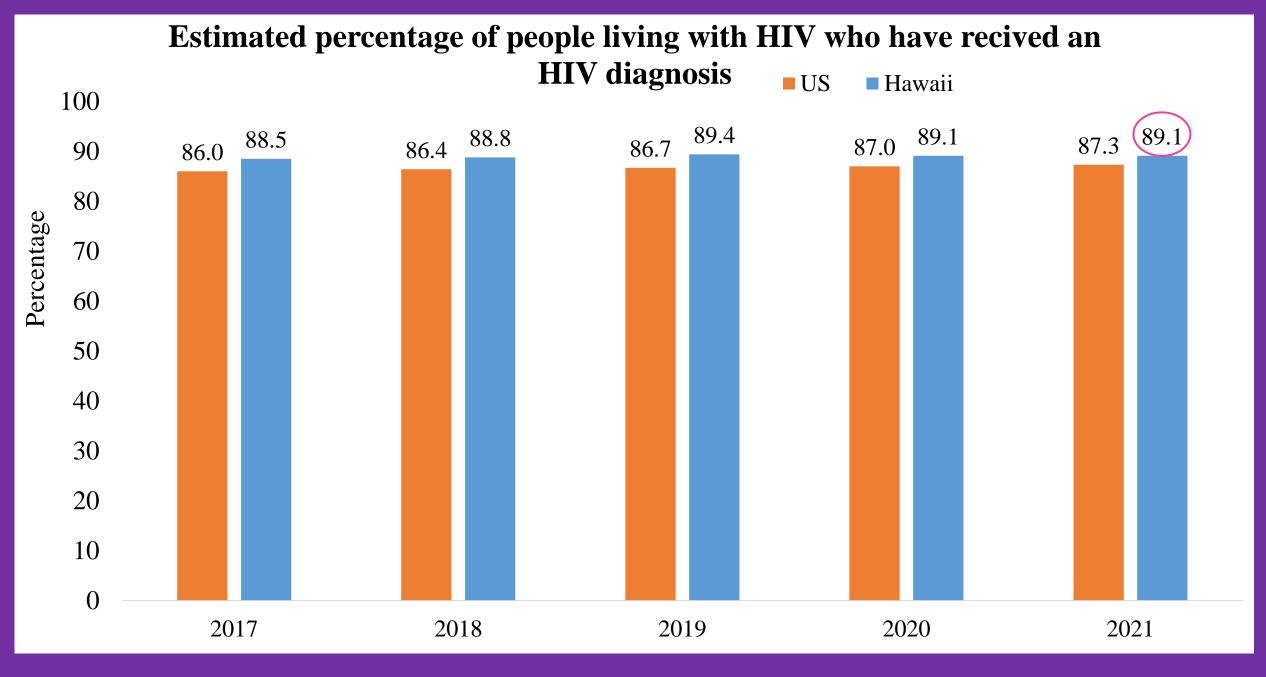
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Estimated HIV prevalence

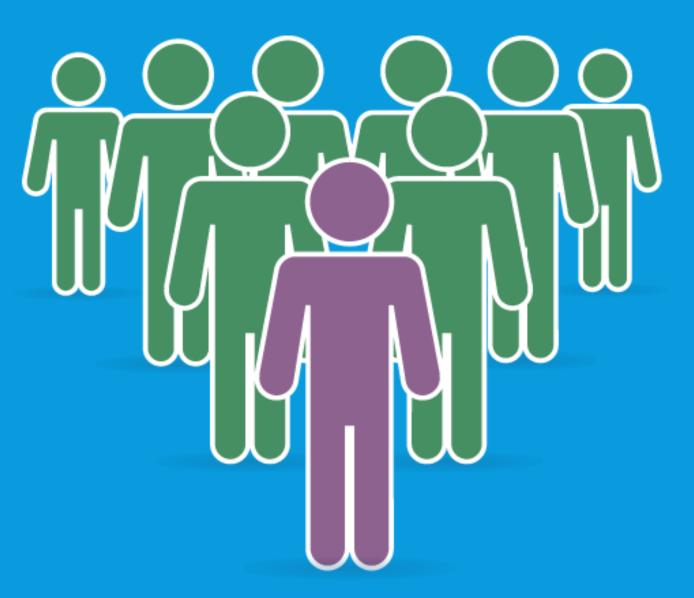
Knowledge of status

Expressed as a percent



CDC. Estimated HIV incidence and prevalence in the United States 2017–2021. HIV Surveillance Supplemental Report 2023;28(3).

About 1 in 9 was living with undiagnosed HIV in 2021



CDC. Estimated HIV incidence and prevalence in the United States 2017–2021. HIV Surveillance Supplemental Report 2023;28(3).

Estimated number of persons living with HIV at year-end 2021*				
Category	Honolulu County	Statewide		
Persons living with diagnosed HIV at year-end 2021	1,461	2,307		
Persons living with <mark>undiagnosed*</mark> HIV at year-end 2021	<mark>179</mark>	<mark>282</mark>		
Persons living with HIV at year-end 2021	1,640	2,589		

*CDC. Estimated HIV incidence and prevalence in the United States 2017–2021. HIV Surveillance Supplemental Report 2023;28(3).

Characteristics of persons living with diagnosed HIV infection at year-end 2021*					
	Honolulu County (n=1,461)		State (n=2,307)		
Characteristics	No.	Percent	Percent No.		
In case management					
Yes	744	50.9	1,200	52.0	
No	717	49.1	1,107	48.0	
Birth sex					
Female	160	11.0	249	10.8	
Male	1,301	89.0	2,058	89.2	
Age at year-end 2021					
<13	DS	DS	5 2		
13-24	DS	DS	34	1.5	
25-34	166	11.4	245	10.2	
35-44	247	16.9	358	15.5	
45-54	317	21.7	475	20.6	
≥55	707	48.4	1,203	52.1	

*Data was suppressed at the county level if the total count was <5 and are further stratified. Additional cell might be suppressed to preclude arithmetic calculation of a suppressed cell.

Characteristics of persons living with diagnosed HIV infection at year-end 2021*

Race/ethnicity Hispanic, all races	Honolulu County (n=1,461)		State (n=2,307)	
Race/etimicity	No.	Percent	No.	Percent
Hispanic, all races	173	11.8	287	12.4
American Indian/Alaska Native	DS	DS	2	0.1
Asian	321	22.0	388	16.8
Black	85	5.8	119	5.2
Native Hawaiian/Other Pacific Islander	167	11.4	216	9.4
White	521	35.7	1,008	43.7
Multiple races	188	12.9	275	11.9
Other/Unknown	DS	DS	12	0.5

*Data was suppressed at the county level if the total count was <5 and are further stratified. Additional cell might be suppressed to preclude arithmetic calculation of a suppressed cell.

Characteristics of persons living with diagnosed HIV infection at year-end 2021, Hawaii

Transmission category	Honolulu County (n=1,461)		State (n=2,307)	
	No.	Percent	No.	Percent
Male-to-male sexual contact (MSM)	1,033	70.7	1,665	72.2
Injection drug use (IDU)	93	6.4	140	6.1
MSM & IDU	98	6.7	146	6.3
Heterosexual contact (with a person known to have, or to be at high risk for HIV infection)	148	10.1	224	9.7
Perinatal	8	0.6	14	0.6
Other (including other and risk factor not reported or not identified)	81	5.5	118	5.1

*Data was suppressed at the county level if the total count was <5 and are further stratified. Additional cell might be suppressed to preclude arithmetic calculation of a suppressed cell.

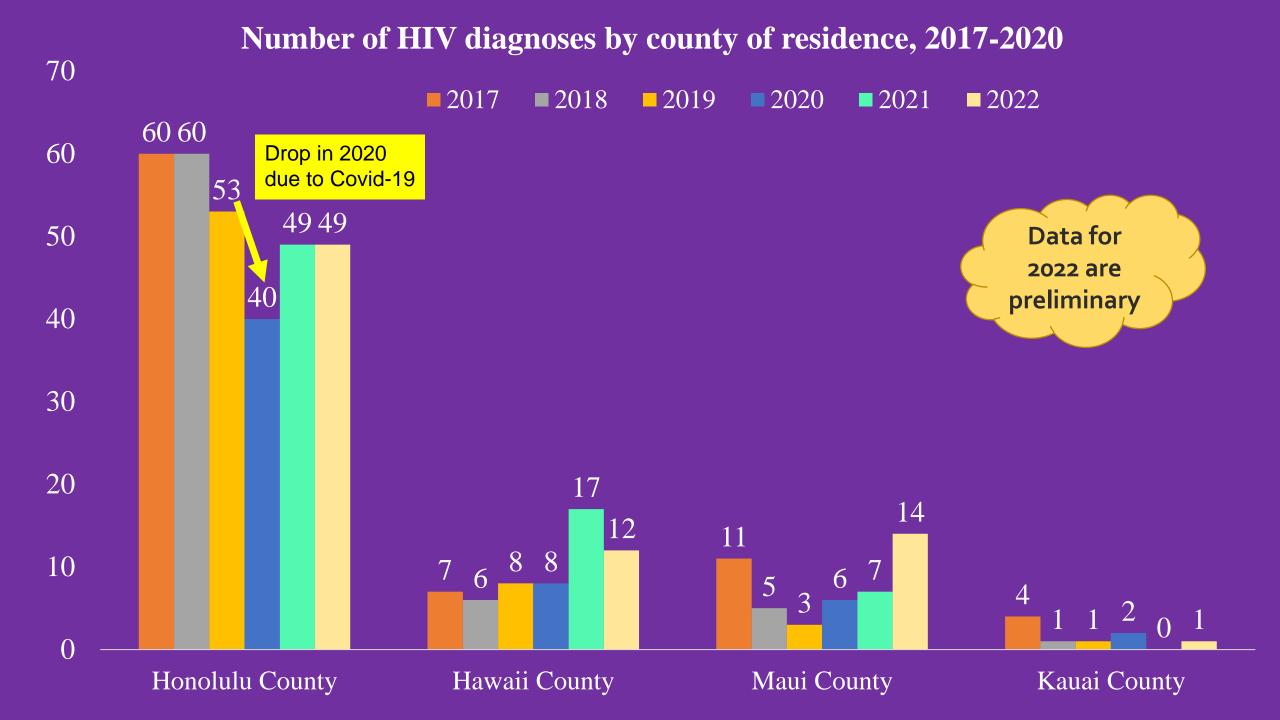
HIV diagnosis, reporting, testing, and linkage to care

Number of diagnosed HIV infection, all stages, 2017-2022, statewide

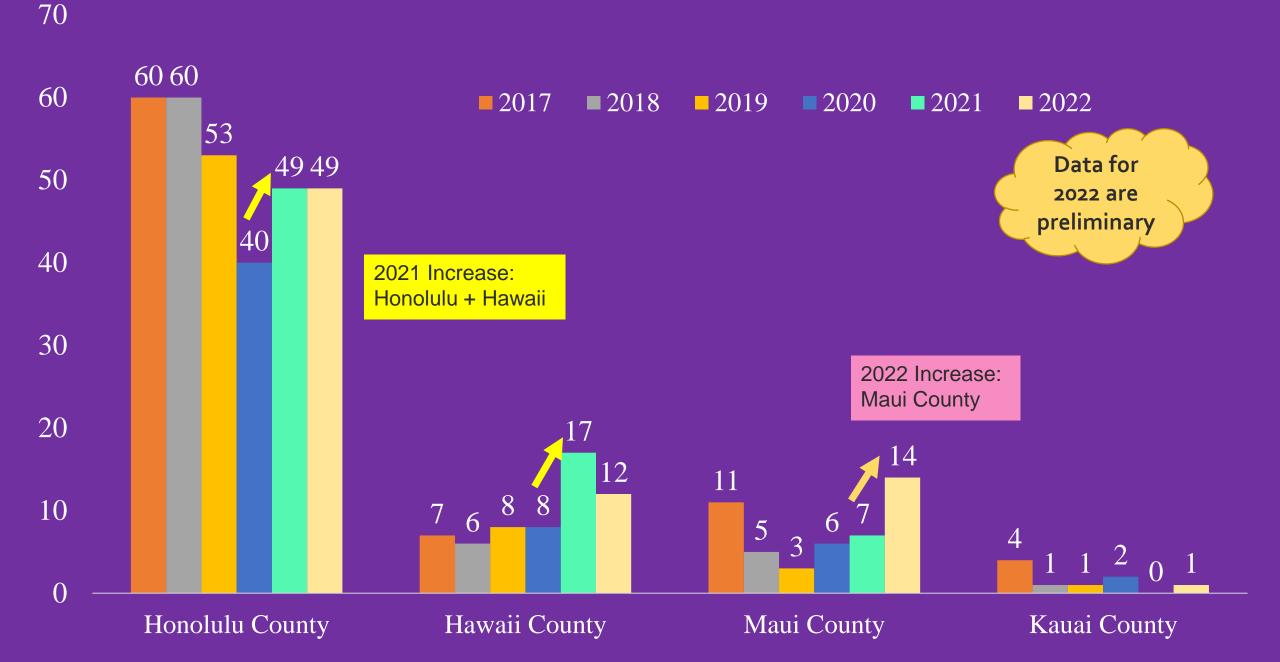


*Only data from persons who resided in Hawaii at the time of HIV diagnosis were included. Number of new diagnosis in most recent years are subject to change due to reporting delays, ongoing national deduplication project, and ongoing data cleaning. Data for 2020 and beyond should be interpreted with caution due to the impact of COVID-19 pandemic.

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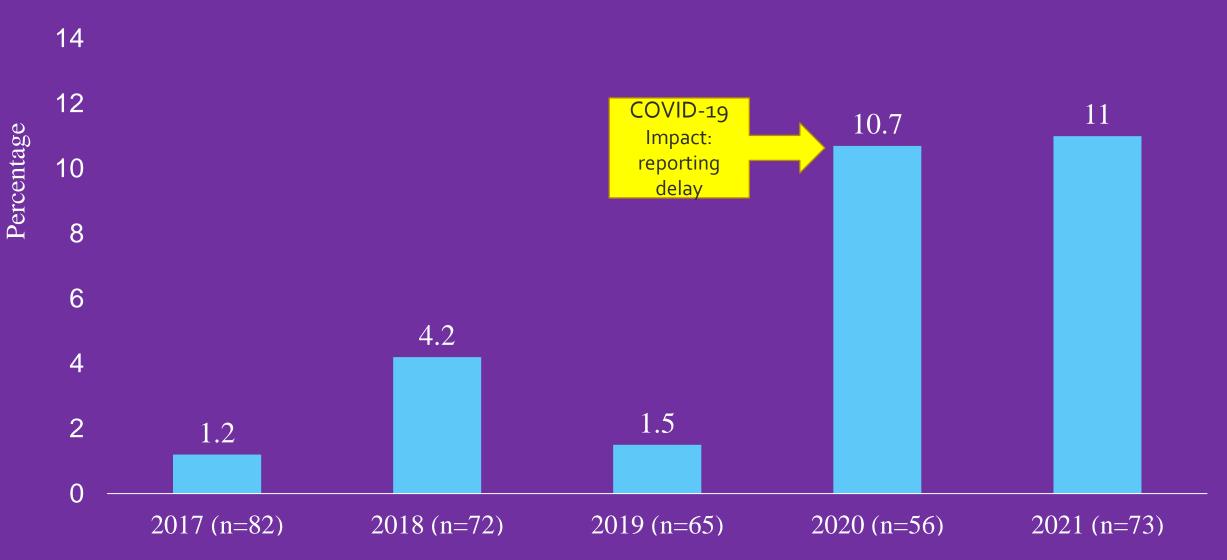


Number of HIV diagnoses by county of residence, 2017-2020, statewide



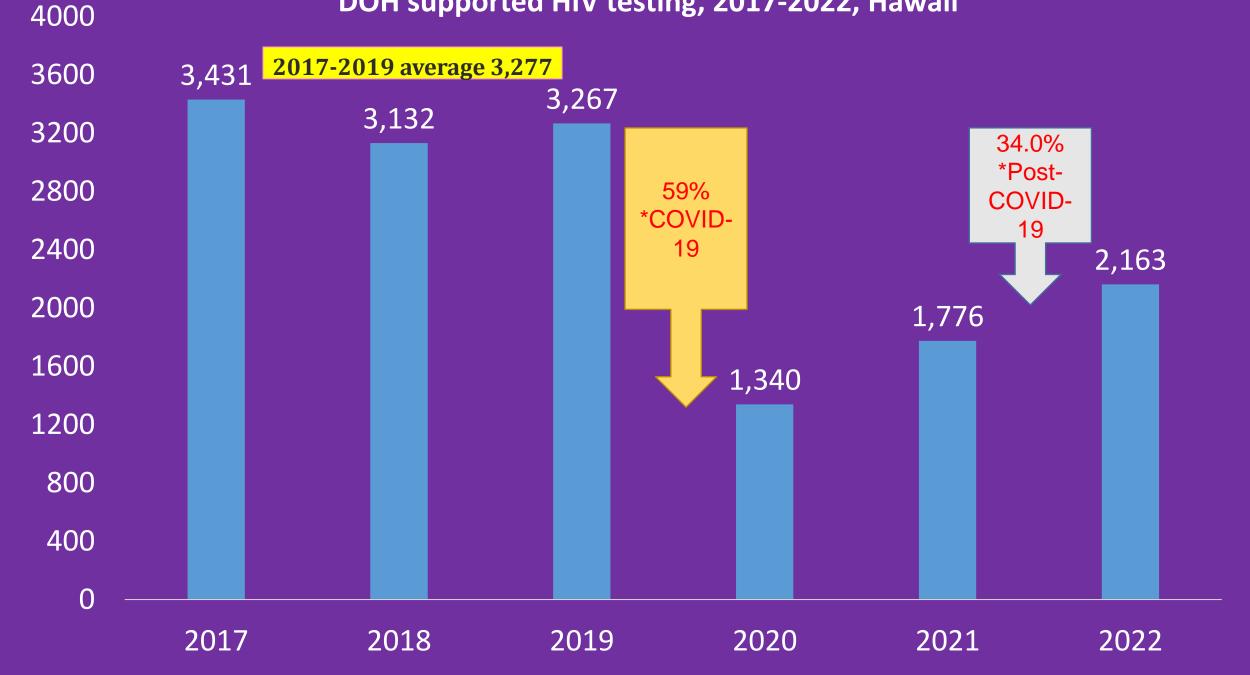
Percentage of HIV diagnosis not reported until at least one year after the date of HIV diagnosis, 2017-2021, statewide

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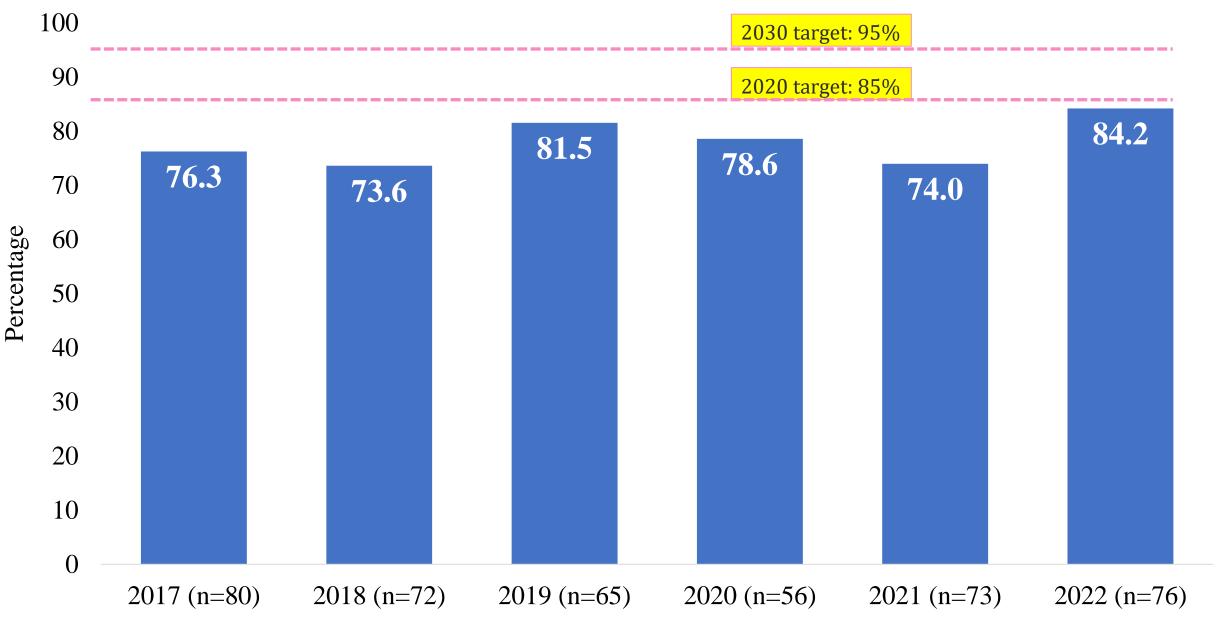


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DOH supported HIV testing, 2017-2022, Hawaii



Linkage to HIV medical care ≤1 month, 2017-2022, statewide



Viral Suppression

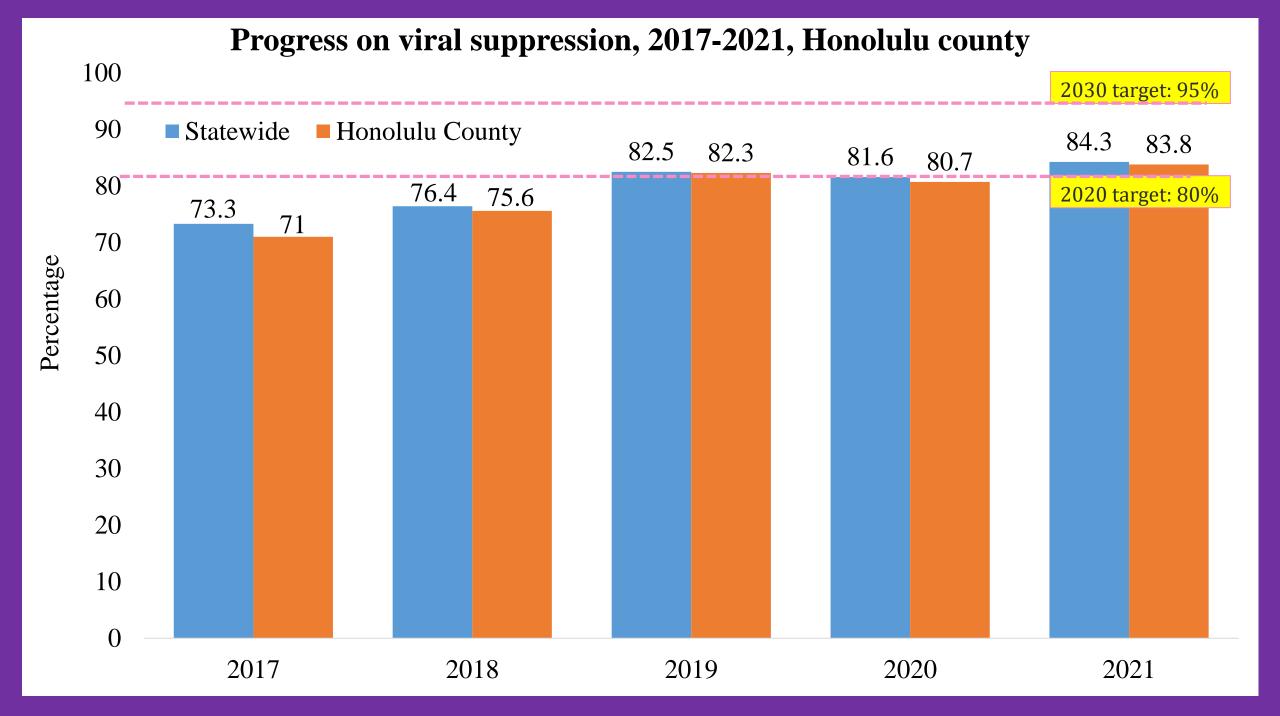
Number of people living with diagnosed HIV who have a low viral load (<200 copies per ml)

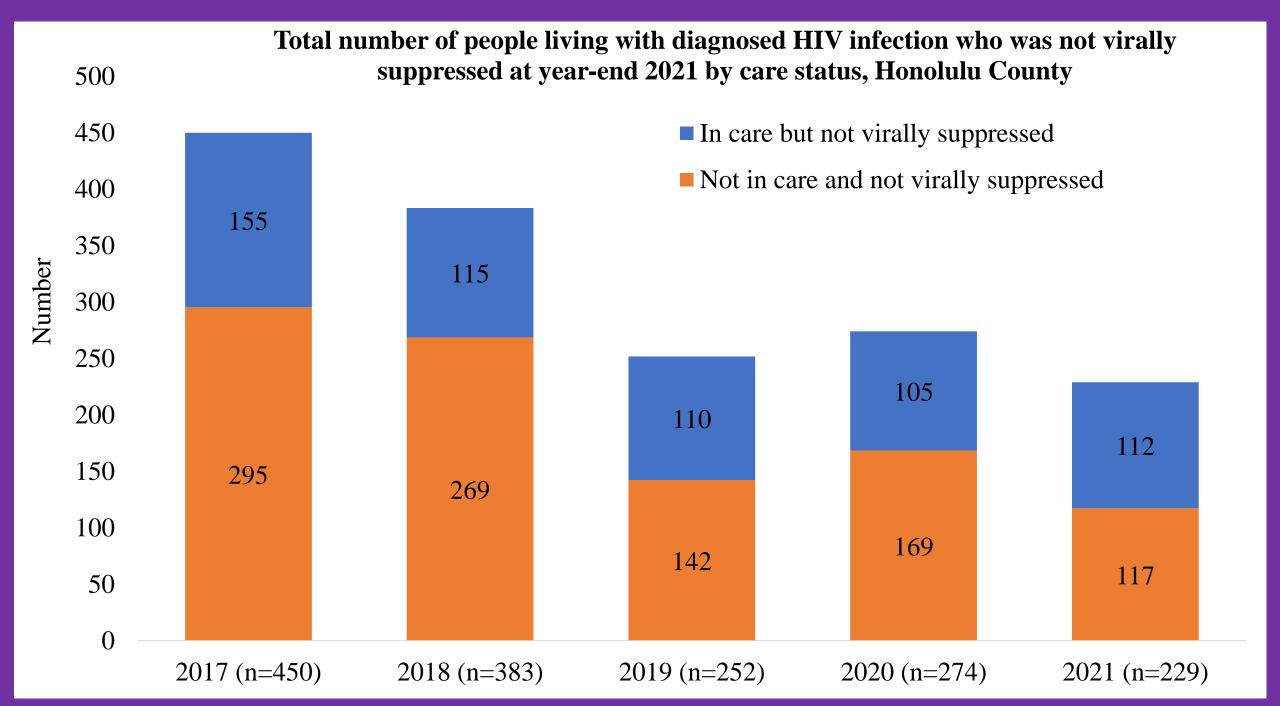
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Number of people living with diagnosed HIV

Viral suppression







People not virally suppressed (VS) for consecutive years



N=99 (26.3%) not VS year-end 2021

N=170 (45.1%), not VS year-end 2020

N=377, not VS year-end 2019

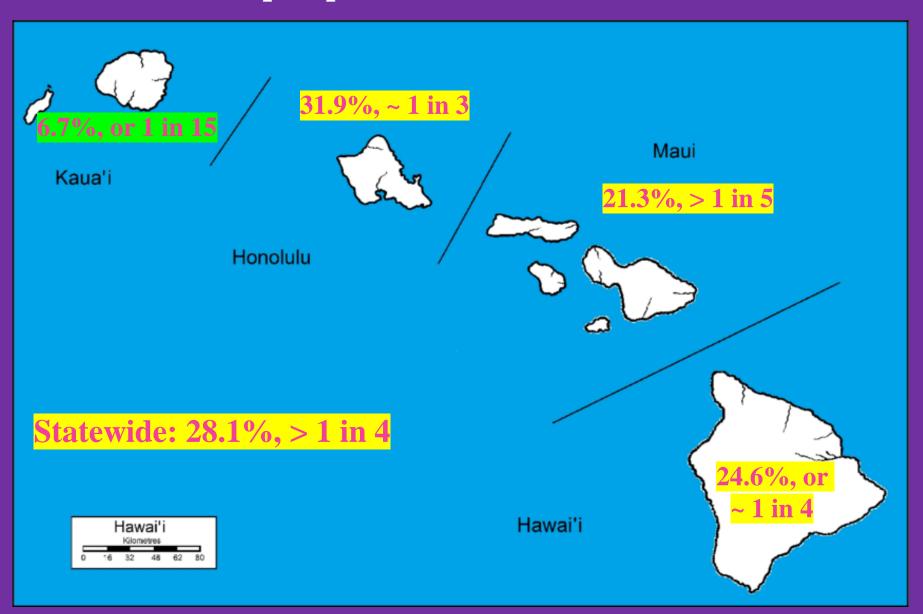
Honolulu County

N=73 (29.6%) not VS year-end 2021

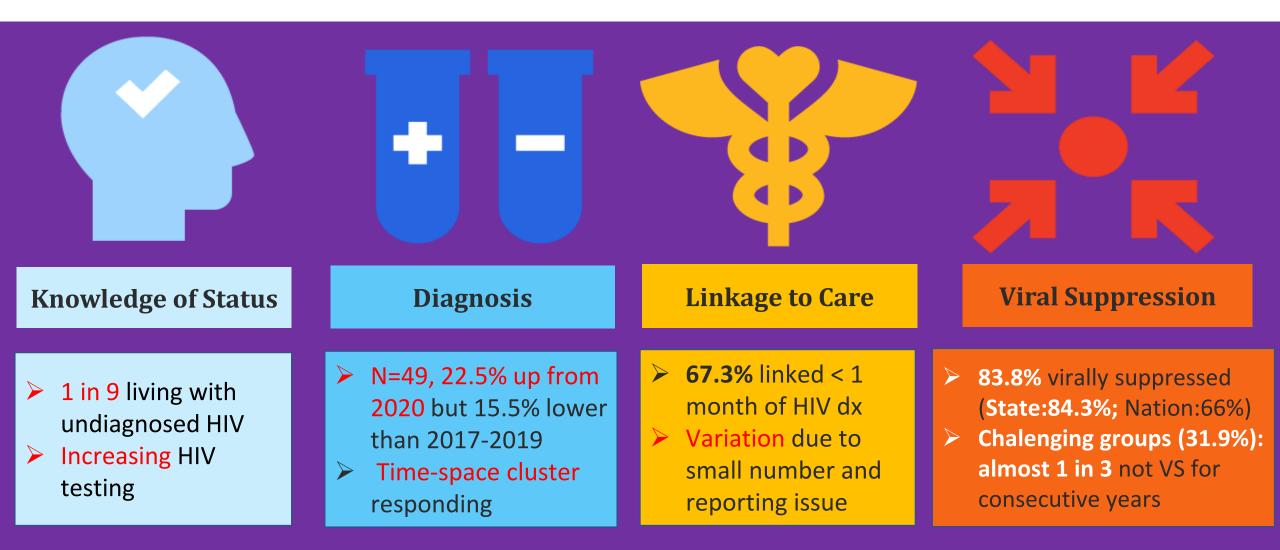
N=123 (49.8%) not VS year-end 2020

N=247, not VS year-end 2019

Percentage of people not virally suppressed (VS) since 2019, among people not VS in 2021



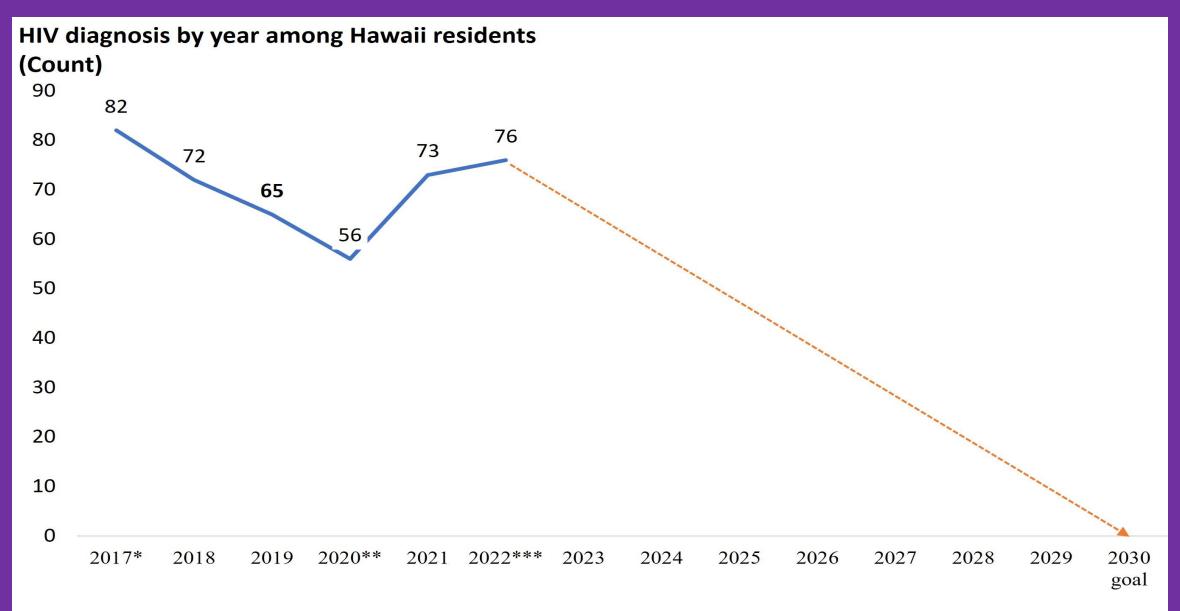
Summary of 2021 HIV epidemiology, Honolulu County



More Information

Highlights of Hawaii HIV/AIDS Epidemiology, 2017 and beyond --Trends, Progress, and 2021 Care Continuum

https://health.hawaii.gov/harmreduction/hiv-aids-surveillance/

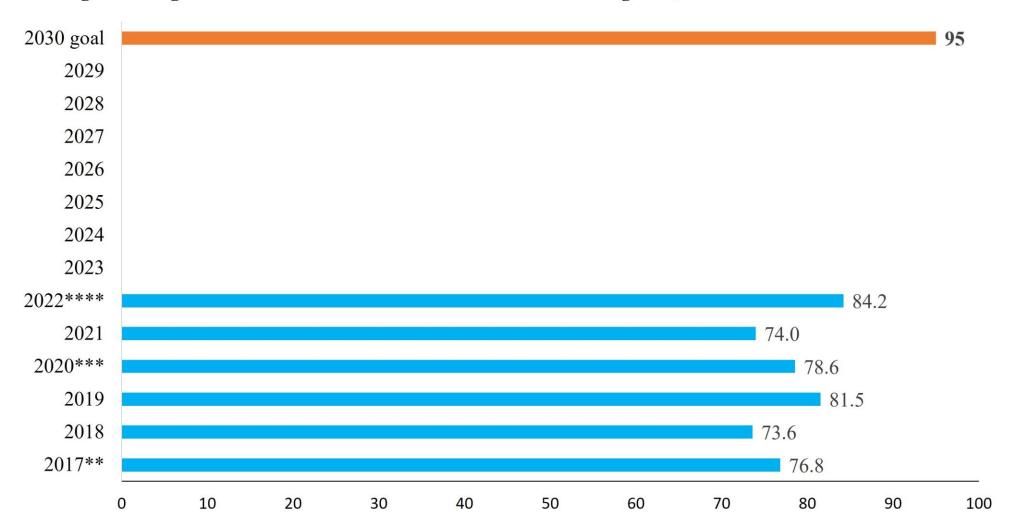


* 2017 serves as the baseline year.

** Due to COVID-19 pandemic, data for 2020 should be interpreted with caution.

*** Data for 2022 is preliminary because it is based on a 6-month reporting delay.

Percentage of linkage to HIV medical care within one month of HIV diagnosis, Hawaii *



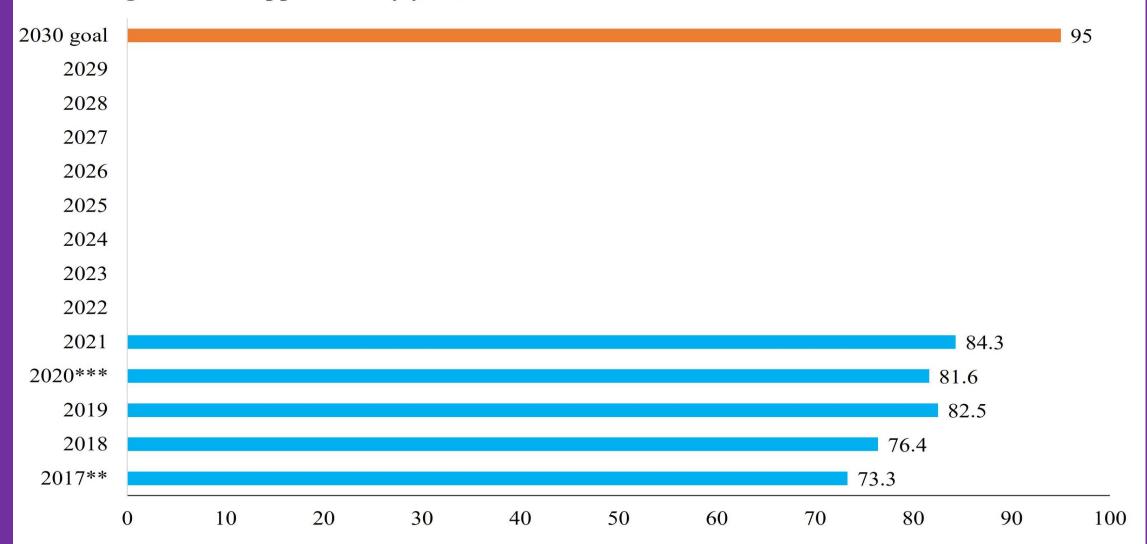
* Linkage to HIV medical care is defined as documentation of at least one CD4 or viral load test within one month of HIV diagnosis. The Hawaii to Zero goal is to increase the percentage of people linked to HIV medical care within one month of HIV diagnosis to at least 95% by 2030, which aligns with the national 2030 goal.

** 2017 serves as the baseline year.

*** Due to COVID-19 pandemic, data for 2020 should be interpreted with caution.

**** Data for 2022 is preliminary because it is based on a 6-month reporting delay.

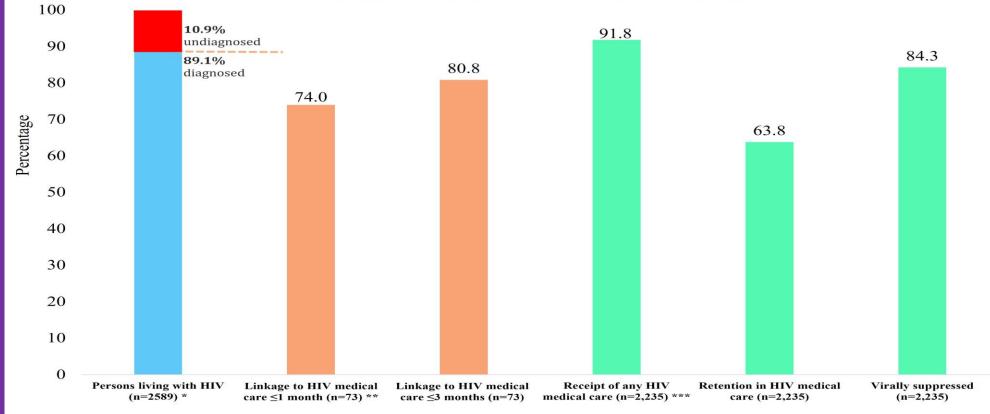
Percentage of viral suppression by year, Hawaii *



* Viral suppression is defined as a viral load result of < 200 copies/mL at the most recent viral load test in the year of measurment. The Hawaii to Zero goal is to **increase** the percentage of viral suppression to **at least 95%** by 2030, which aligns with the national 2030 goal. ** 2017 serves as the baseline year.

*** Due to COVID-19 pandemic, data for 2020 should be interpreted with caution.

State of Hawaii 2021 HIV Care Continuum

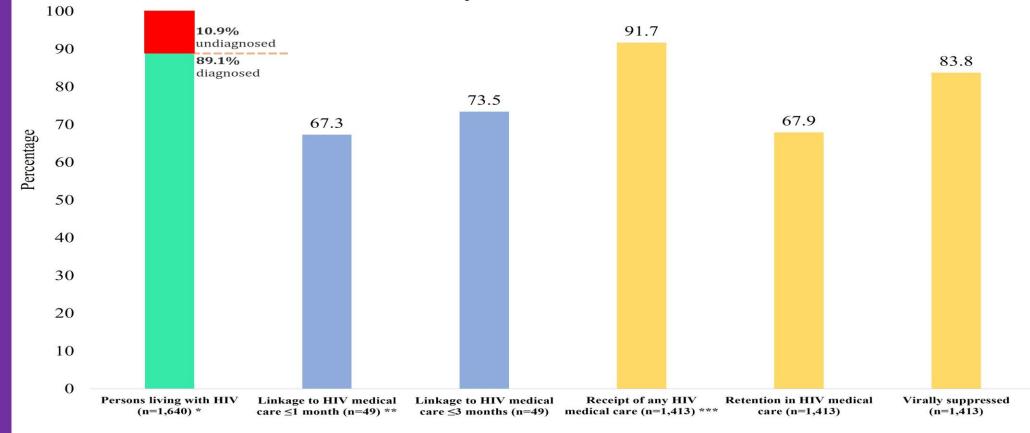


* The first bar in blue, refers to the estimated number of persons living with HIV and the percentage of persons living with undiangosed or diangosed HIV. CDC estimated that in 2021 in Hawaii, the percentage of people living with undiagnosed HIV infection was 10.9%, about 1 in 9, slightly below the national average at 13.2%. Based on this percentage, we estimated there were a total of 2,589 persons living with HIV in Hawaii in 2021, of whom 2,307 (89.1%) were living with diagnosed HIV and another 282 (10.9%) were living with undiagnosed HIV.

** The second and third bars in orange refer to linkage to HIV medical care among persons newly diagnosed with HIV. Linkage to HIV medical care is defined as documentation of \geq 1 CD4 or viral load test results within 1 month or 3 months of HIV diagnosis. In 2021, a total of 73 persons were diagnosed with HIV infection in Hawaii, of whom 74.0% were linked to HIV medical care within one month and 80.8% within three months of HIV diagnosis.

*** The last three bars in green refer to receipt of HIV medical care, retention in HIV medical care and viral suppression among persons with HIV diangosed before 2021, aged 13 years or older before 2021 and resided in Hawaii at year-end 2021. Receipt of any HIV medical care is defined as documentation of \geq 1 CD4 or viral load test in the year of measurement. Retention of HIV medical care is defined as documentation of \geq 2 CD4 or viral load test in the year of measurement. Viral suppression is defined as the latest viral load test in the year of measurement. Viral suppression is defined as the latest viral load test in the year of measurement. Viral suppression is defined as the latest viral load test in the year of measurement with a result of <200 copies/ml. In 2021, a total of 2,235 persons were included in Hawaii, of whom 91.8% received any HIV medical care, 63.8% were retained in HIV medical care, and 84.3% were virally suppressed.

Honolulu County 2021 HIV Care Continuum



* The first bar in blue, refers to the estimated number of persons living with HIV and the percentage of persons living with undiangosed or diangosed HIV. CDC estimated that in 2021 in Hawaii, the percentage of people living with undiagnosed HIV infection was 10.9%, about 1 in 9, slightly below the national average at 13.2%. Based on this percentage, we estimated there were a total of 1,640 persons living with HIV in Honolulu County in 2021, of whom 1,461 (89.1%) were living with diagnosed HIV and 179 (10.9%) were living with undiagnosed HIV.

** The second and third bars in orange refer to linkage to HIV medical care among persons newly diagnosed with HIV. Linkage to HIV medical care is defined as documentation of \geq 1 CD4 or viral load test results within 1 month or 3 months of HIV diagnosis. In 2021, a total of 49 persons were diagnosed with HIV infection in Honolulu County, of whom 67.3% were linked to HIV medical care within one month and 73.5% within three months of HIV diagnosis.

*** The last three bars in green refer to receipt of HIV medical care, retention in HIV medical care and viral suppression among persons with HIV diangosed before 2021, aged 13 years or older before 2021 and resided in Honolulu County at year-end 2021. Receipt of any HIV medical care is defined as documentation of \geq 1 CD4 or viral load test in the year of measurement. Retention of HIV medical care is defined as documentation of \geq 2 CD4 or viral load tests performed at least 3 months apart in the year of measurement. Viral suppression is defined as the latest viral load test in the year of measurement. Viral suppression is defined as the latest viral load test in the year of measurement. Viral suppression is defined as the latest viral load test in the year of measurement with a result of <200 copies/ml. In 2021, a total of 1,413 persons were included in Honolulu County, of whom 91.7% received any HIV medical care, 67.9% were retained in HIV medical care, and 83.8% were virally suppressed.

Acknowledgement

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HIV care providers/community organizations (members)