

**HIV EPIDEMIOLOGY
ANNUAL REPORT 2020**

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Sharon Pipkin, MPH
HIV Epidemiology Section
sharon.pipkin@sfdph.org

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SAN FRANCISCO DEPARTMENT OF PUBLIC HEALTH

Outline

- COVID-19 impact on HIV prevention and treatment services
- New diagnosis trends
- HIV care continuum
- Other key indicators: mortality, survival time after stage 3
- Homeless diagnoses and PLWH
- HIV Pre-exposure prophylaxis (PrEP) care continuum

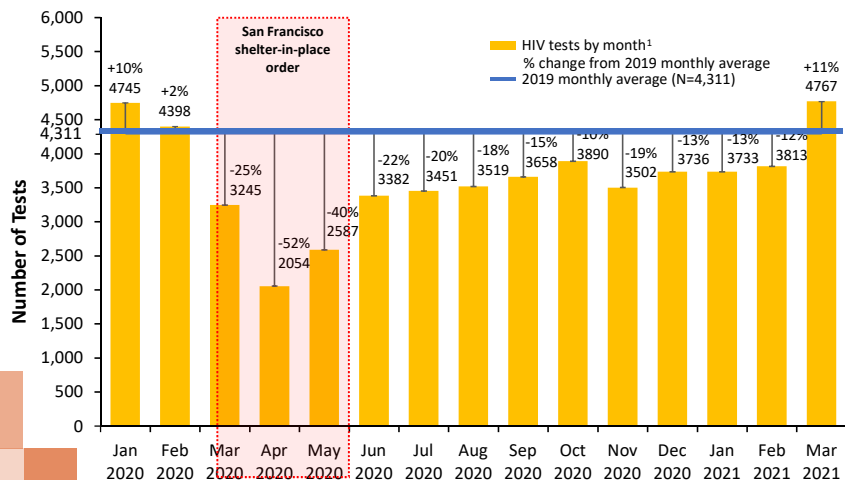
Evaluation of COVID-19 Impact on HIV Prevention and Treatment Services

- Shelter-in-Place March 2020- May 2020 caused clinical and community-based services to shut down or move to virtual platforms
- Public health workforce re-directed to COVID-19
- Using lab tests, evaluate the impact of pandemic on:
 - Population-wide testing
 - HIV disease monitoring among PLWH



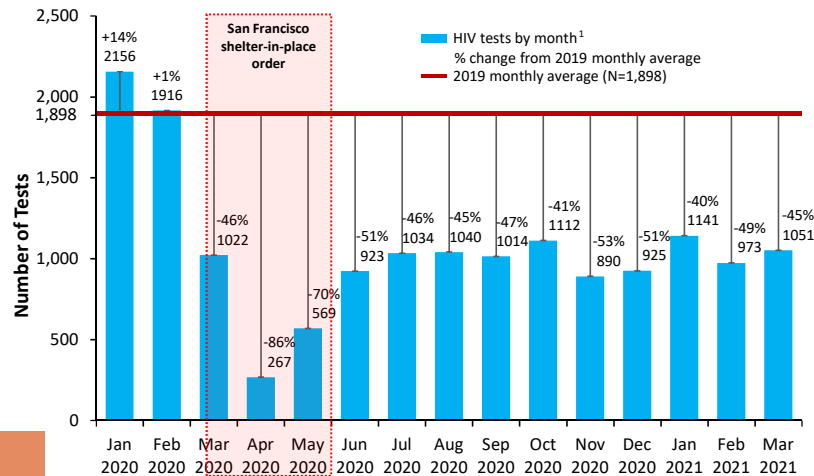
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HIV screening tests at select medical facilities during January 2020 to March 2021, San Francisco



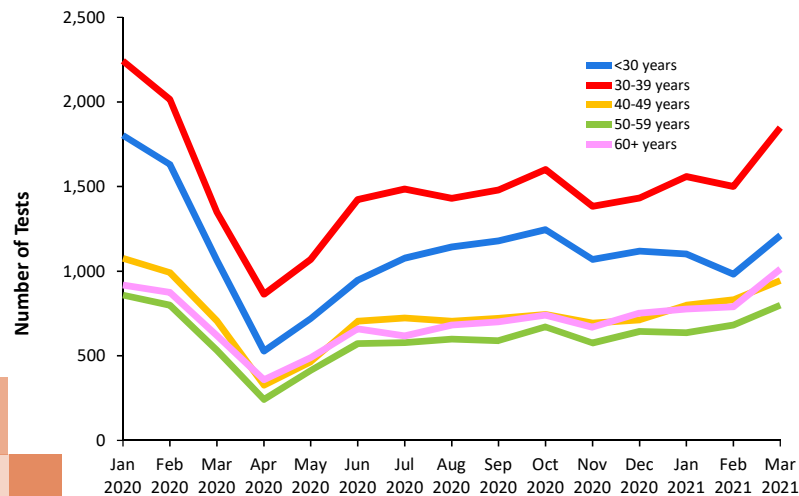
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HIV screening tests at community sites during January 2020 to March 2021, San Francisco



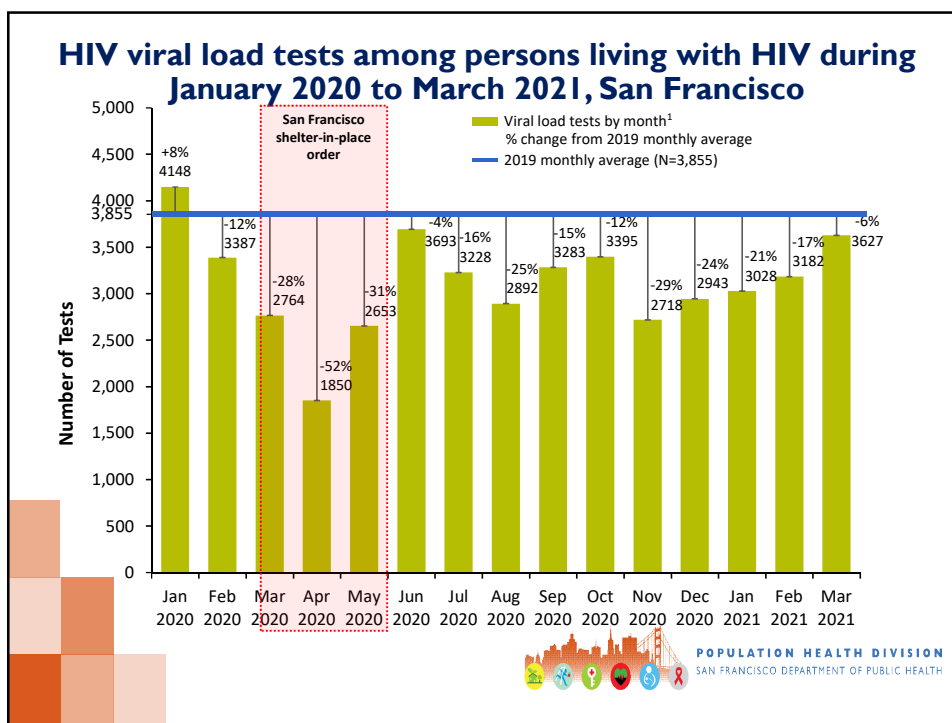
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Laboratory-based HIV screening tests¹ by age group, January 2020 - March 2021, San Francisco



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¹ Includes reporting of positive and negative HIV-1/2 Antibody/Antigen (4th generation) test results from three hospital laboratories and pooled HIV RNA testing from the SFDPH laboratory as of April 2021. Data span to March 2021 for the purpose of tracking effects of the COVID-19 pandemic. Excludes tests with unknown age.



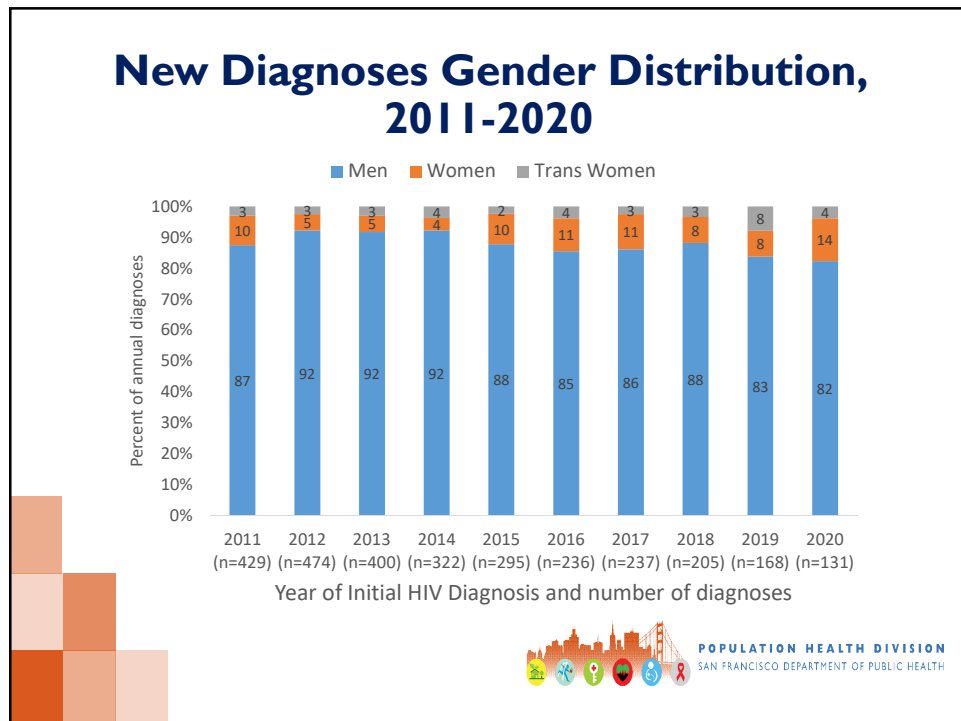
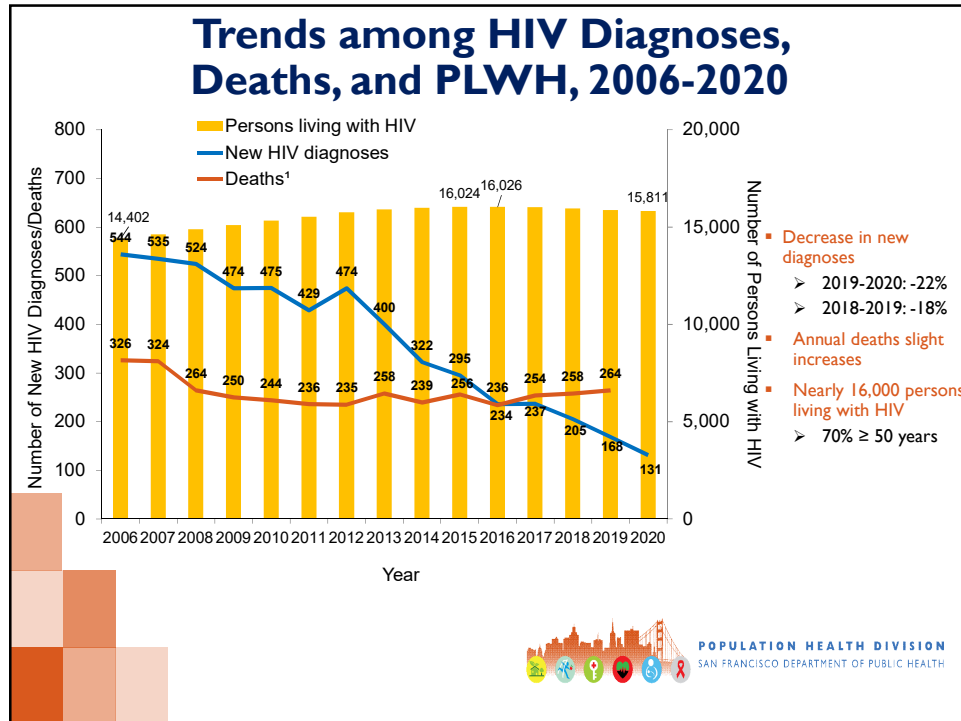
Summary of COVID-19 pandemic impact on HIV testing

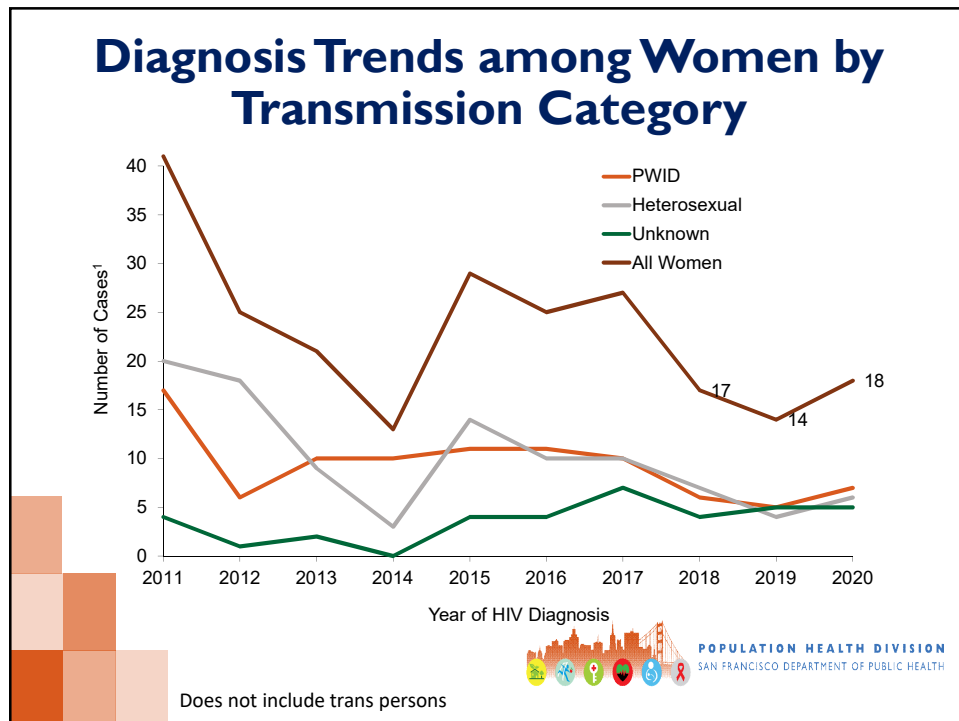
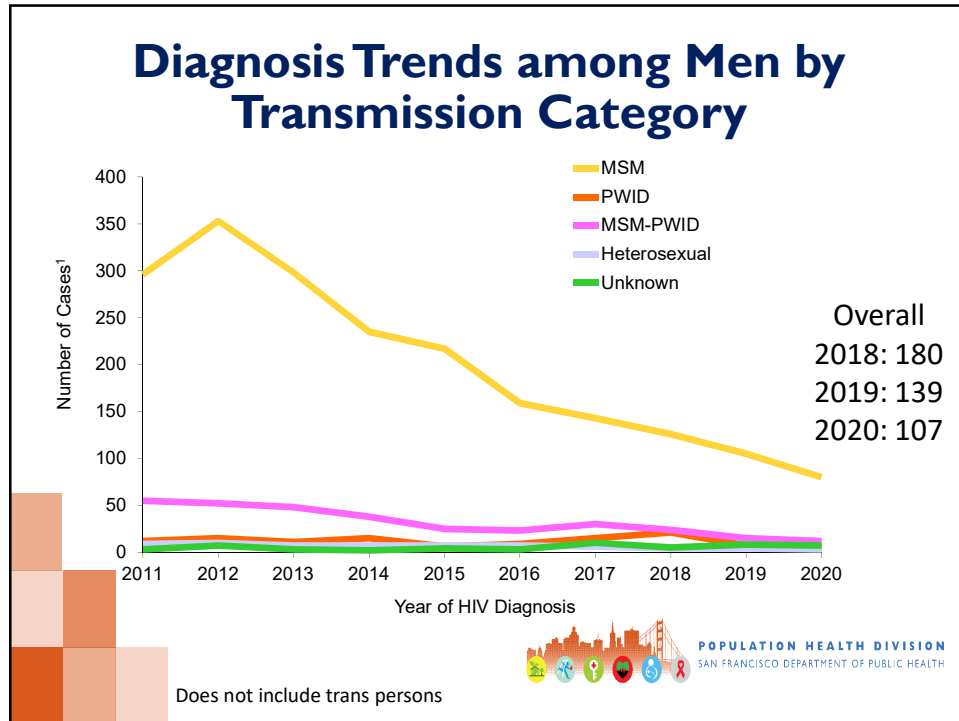
Population-wide testing

- Dramatic declines during Shelter-in-Place
- By age group, monthly volume of testing rebounded, though not to pre-pandemic levels; 60+ year old group recovered to pre-pandemic levels.

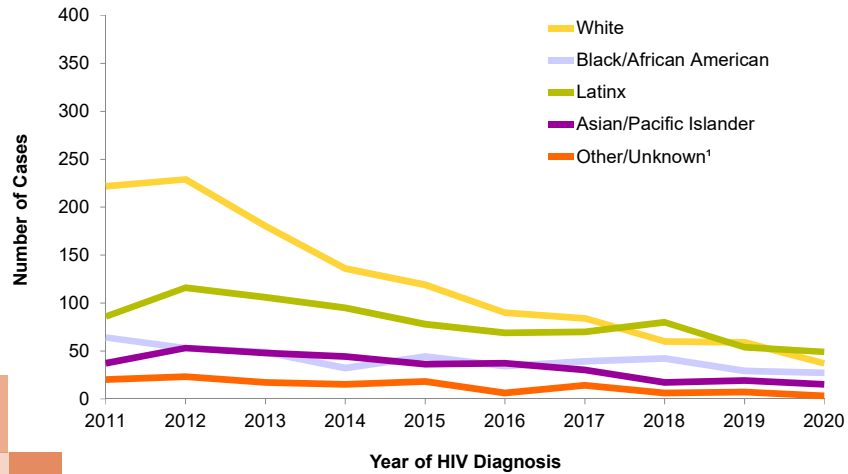
PLWH HIV monitoring

- Average monthly HIV viral load tests among PLWH: 52% decline in viral load testing in April 2020
- Monthly numbers of viral load tests increased since November 2020 but still below 2019 testing levels



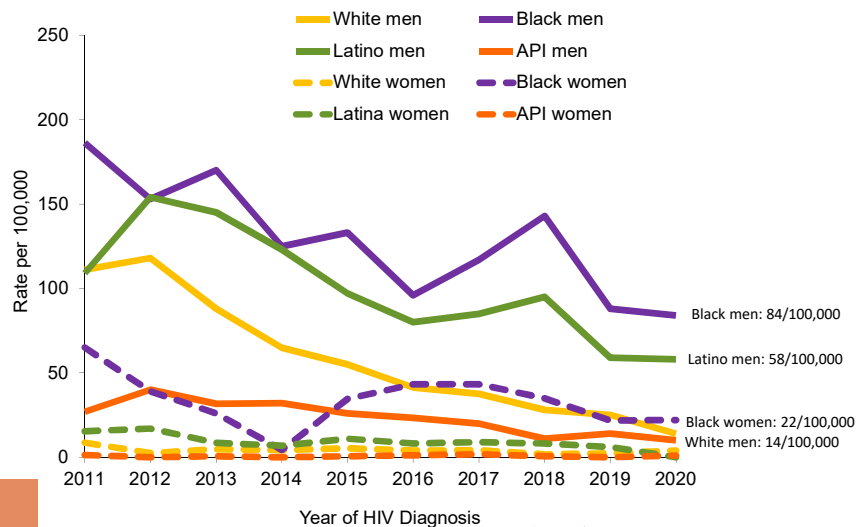


Diagnosis Trends by Race/ethnicity



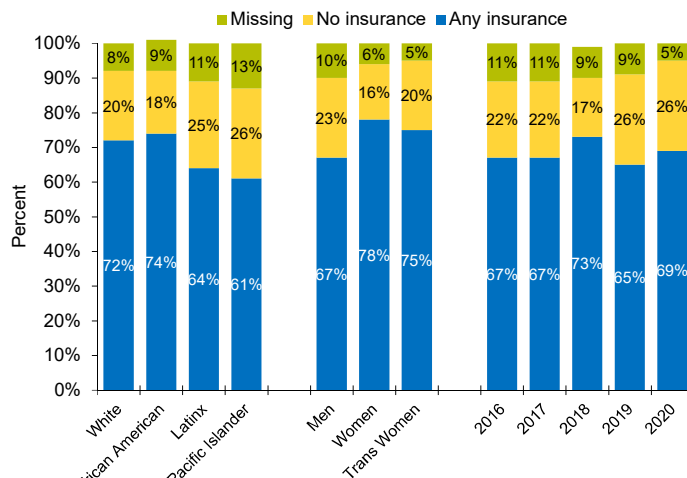
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Annual Rates of HIV Diagnosis by Race/ethnicity and Gender



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Health Insurance Status at Diagnosis, 2016-2020



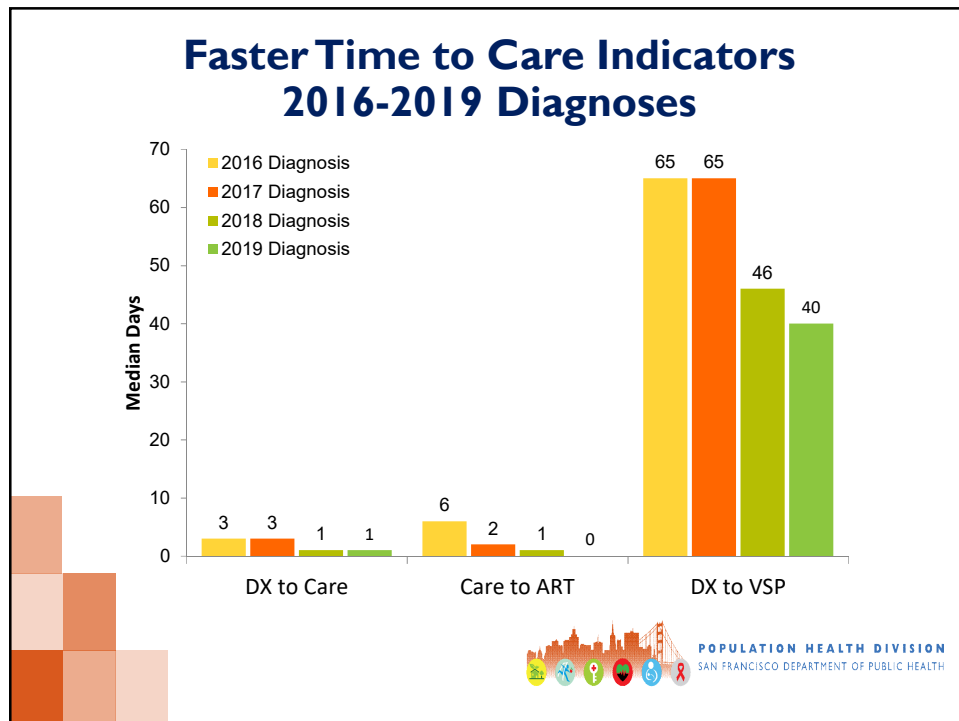
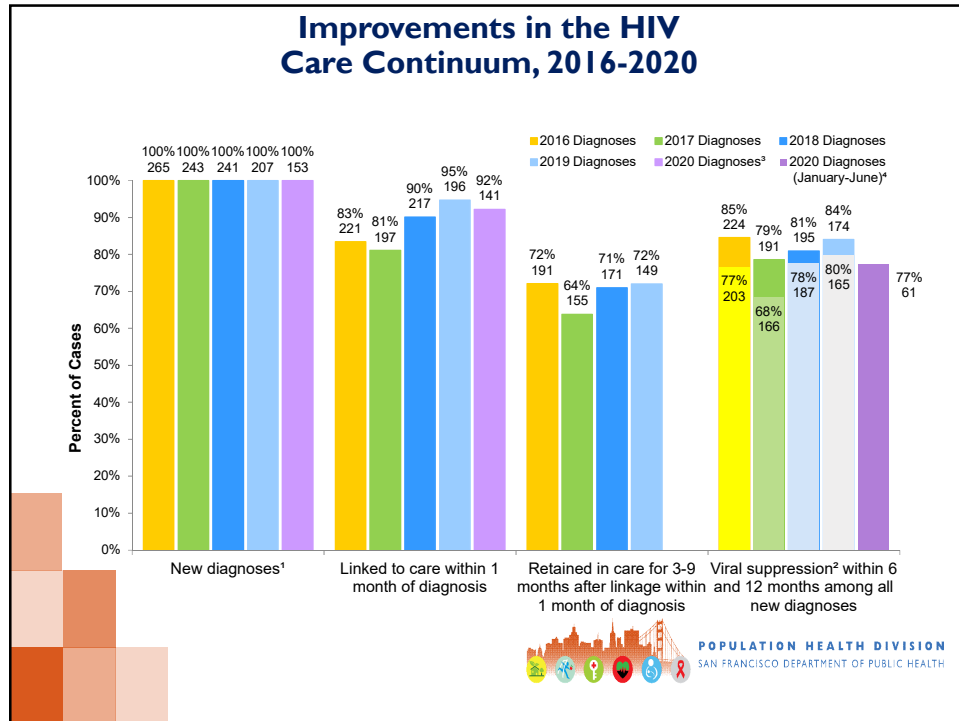
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Summary of New Diagnoses

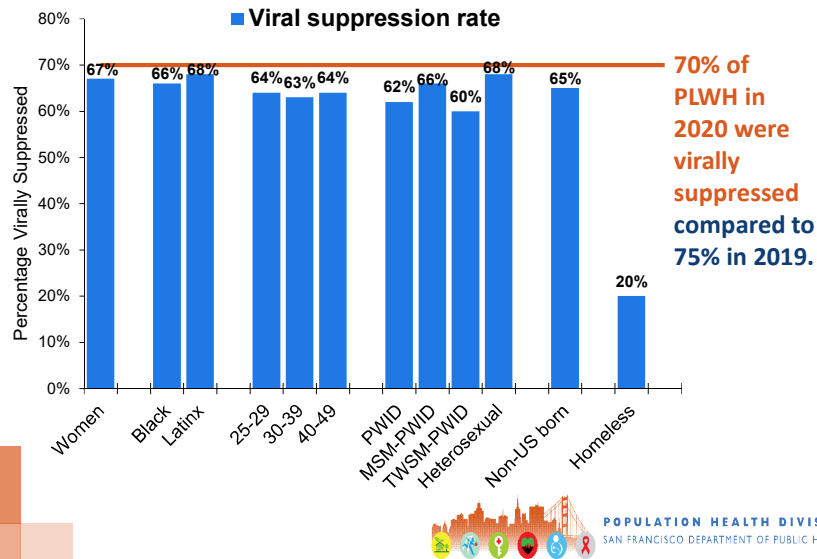
- From 2011-2020 subtle shift in gender distribution of annual diagnoses
- Decreases in 2020 diagnosis numbers among men in all risk groups
- Diagnosis rates in men: Whites declined from 2019, but Black and Latino men were level
- Diagnosis rates in women: Blacks had highest diagnosis rate; Black and Latina women were level compared to 2019
- In 2016-2020, diagnoses with any health coverage fluctuated from 65% to 73% each year



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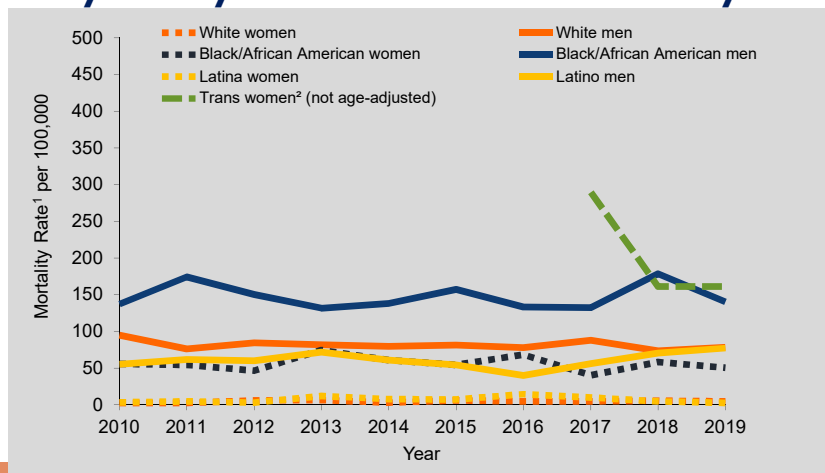
Disparities in Viral Suppression PLWH



Deaths in 2015-2019 among persons diagnosed with HIV, San Francisco

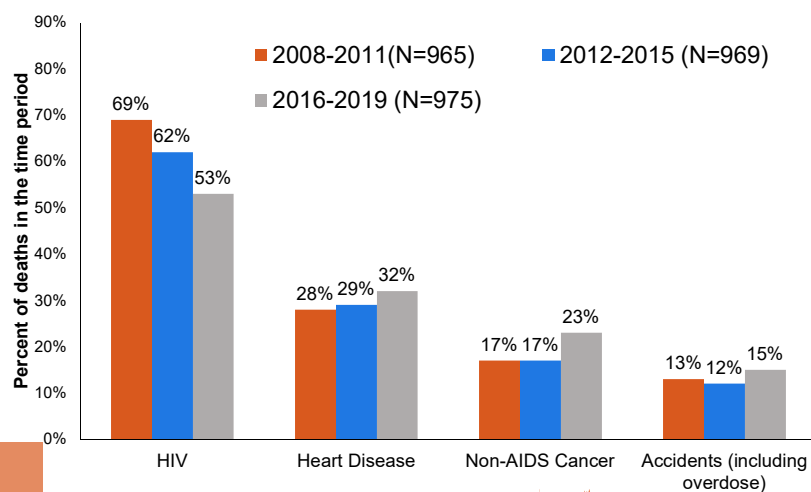
| | | Year of Death | | | | |
|-----------------------|---|---------------|---------|---------|---------|---------|
| | | 2015 | 2016 | 2017 | 2018 | 2019 |
| Gender ¹ | Men | 228(89) | 196(84) | 224(88) | 230(89) | 240(91) |
| | Women | 27(11) | 27(12) | 21(8) | 22(9) | 19(7) |
| | Trans Women | 1(<1) | 11(5) | 9(4) | 5(2) | 5(2) |
| | Total | 256 | 234 | 254 | 257 | 264 |
| Race/Ethnicity | White | 146(57) | 141(60) | 166(65) | 134(52) | 147(56) |
| | Black/African American | 48(19) | 50(21) | 43(17) | 57(22) | 43(16) |
| | Latinx | 31(12) | 30(13) | 35(14) | 38(15) | 44(17) |
| | Asian/Pacific Islander/ Native American | 8(3) | 4(2) | 3(1) | 15(6) | 14(5) |
| | Multi-Race | 23(9) | 9(4) | 7(3) | 13(5) | 16(6) |
| Transmission Category | MSM | 139(54) | 121(52) | 130(51) | 147(57) | 149(56) |
| | PWID | 43(17) | 34(15) | 39(15) | 32(12) | 32(12) |
| | MSM-PWID | 62(24) | 57(24) | 64(25) | 60(23) | 63(24) |
| | Heterosexual | 6(2) | 9(4) | 8(3) | 12(5) | 11(4) |
| | Other/Unidentified ² | 6(2) | 13(6) | 13(5) | 6(2) | 9(3) |
| Age at Death (years) | 0 - 29 | 7(3) | 1(<1) | 4(2) | 4(2) | 3(1) |
| | 30 - 39 | 15(6) | 11(5) | 12(5) | 8(3) | 13(5) |
| | 40 - 49 | 37(14) | 39(17) | 39(15) | 29(11) | 28(11) |
| | 50 - 59 | 100(39) | 76(32) | 84(33) | 79(31) | 82(31) |
| | 60 - 69 | 66(26) | 77(33) | 66(26) | 92(36) | 82(31) |
| | 70+ | 31(12) | 30(13) | 49(19) | 45(18) | 56(21) |
| | Total | 256 | 234 | 254 | 257 | 264 |
| HIV Disease Stage | Stage 0, 1, 2, or unknown | 42(16) | 38(16) | 40(16) | 36(14) | 64(24) |
| | Stage 3 (AIDS) | 214(84) | 196(84) | 214(84) | 221(86) | 200(76) |

Age-adjusted Mortality Rates Persons 18+ years by Gender and Race/ethnicity

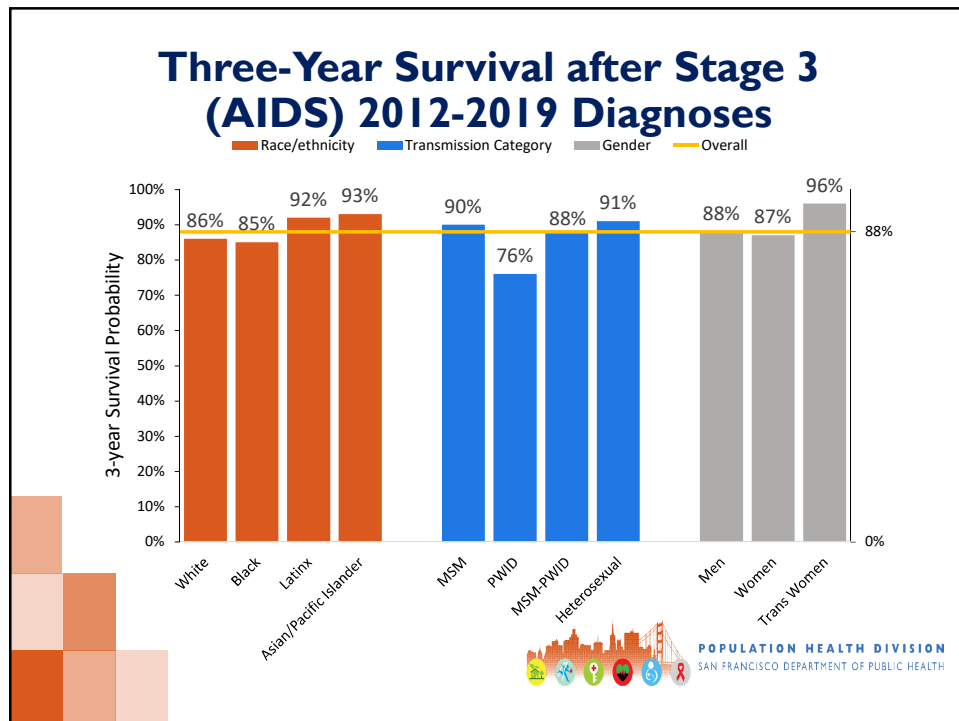
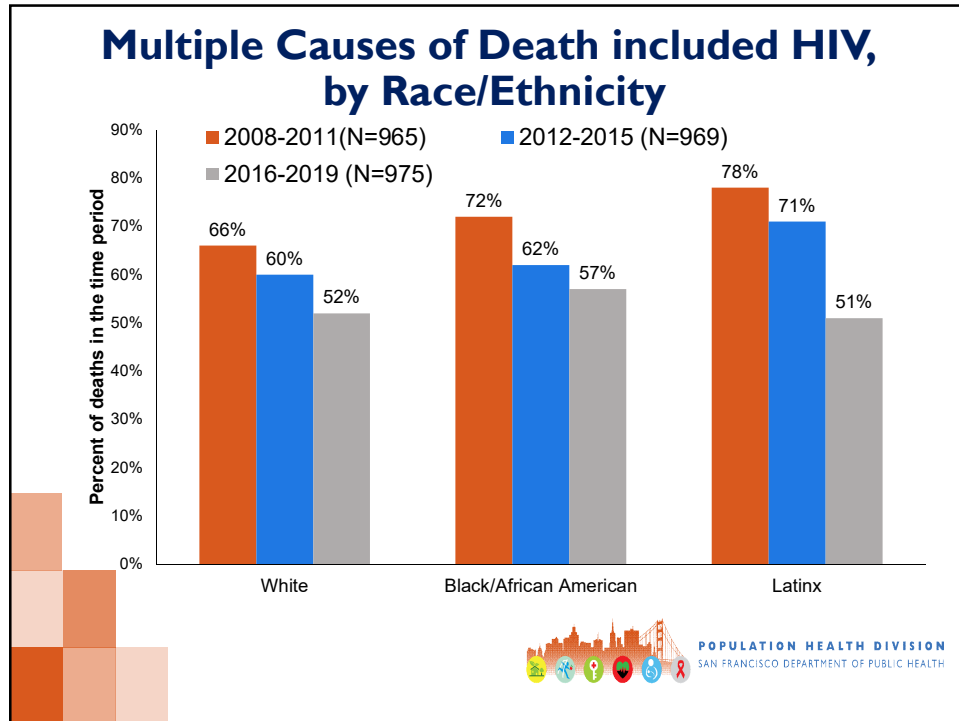


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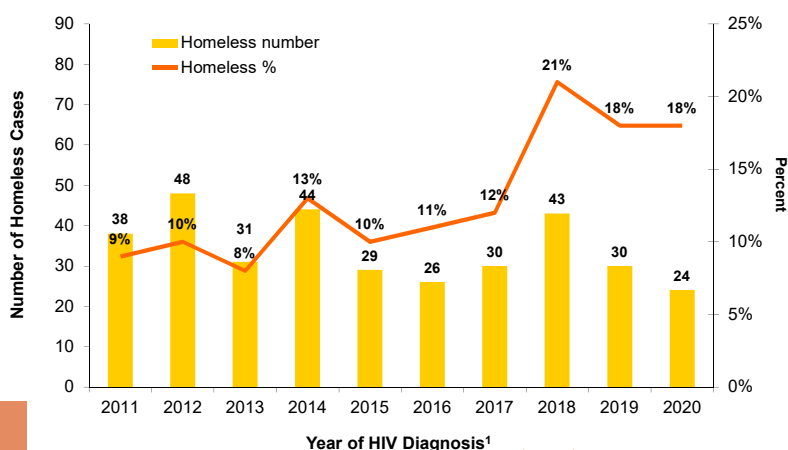
Trends in Multiple Causes of Death among Persons with HIV



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Number and Percent Homeless at Diagnosis, 2011-2020



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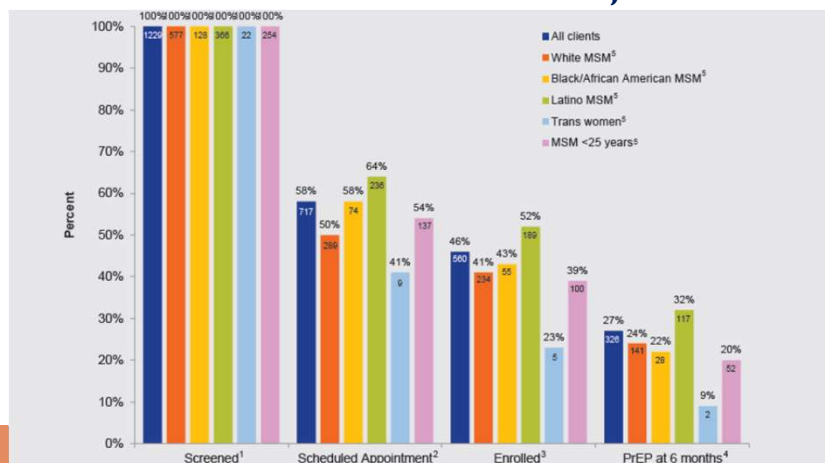
Homeless Persons Compared to Non-Homeless Diagnosed with HIV, 2011-2020

| | | New HIV Diagnoses, 2011-2020 | |
|--------------------------|------------------------|------------------------------|--------------|
| | | Homeless | Non-Homeless |
| | | Number (%) | |
| Gender ¹ | Total | 343 | 2,554 |
| | Men | 266 (78) | 2,300 (90) |
| | Women | 53 (15) | 177 (7) |
| | Trans Women | 24 (7) | 72 (3) |
| Race/Ethnicity | White | 140 (41) | 1,076 (42) |
| | Black/African American | 90 (26) | 323 (13) |
| | Latinx | 86 (25) | 717 (28) |
| | Asian/Pacific Islander | 8 (2) | 328 (13) |
| | Other/Unknown | 19 (6) | 110 (4) |
| Transmission Category | MSM | 104 (30) | 1,908 (75) |
| | TWSM | 18 (5) | 50 (2) |
| | PWID | 96 (28) | 115 (5) |
| | MSM-PWID | 82 (24) | 240 (9) |
| | TWSM-PWID | 6 (2) | 22 (1) |
| | Heterosexual | 24 (7) | 141 (6) |
| | Other/Unidentified | 13 (4) | 78 (3) |
| Age at Diagnosis (Years) | 13 - 24 | 47 (14) | 333 (13) |
| | 25 - 29 | 57 (17) | 477 (19) |
| | 30 - 39 | 111 (32) | 773 (30) |
| | 40 - 49 | 80 (23) | 601 (24) |
| | 50+ | 48 (14) | 370 (14) |

PLWH Homeless or Living in SRO, 2020

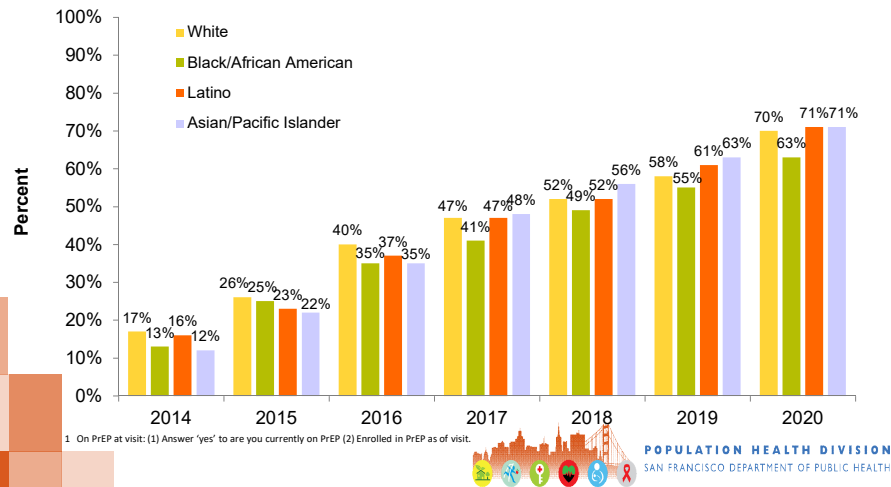
| | | PLWH as of 12/31/2020 ¹ | |
|---------------------------------|------------------------|------------------------------------|------------------------------|
| | | Ever homeless or SRO in 2020 | Non-homeless/non-SRO in 2020 |
| | | Number (%) | |
| Total | | 664 | 7,855 |
| Gender | Total | 664 | 7,855 |
| | Men | 509 (77) | 7,252 (92) |
| | Women | 91 (14) | 418 (5) |
| | Trans Women | 64 (9) | 180 (2) |
| | Trans Men | 0 (0) | 5 (<1) |
| Race/Ethnicity | White | 257 (39) | 4,649 (59) |
| | Black/African American | 166 (25) | 888 (11) |
| | Latinx | 169 (25) | 1,533 (20) |
| | Asian/Pacific Islander | 27 (4) | 512 (7) |
| | Other | 45 (7) | 273 (3) |
| Transmission category | MSM | 255 (38) | 5,912 (75) |
| | TWSM | 35 (5) | 120 (2) |
| | PWID | 129 (19) | 350 (4) |
| | MSM-PWID | 165 (25) | 1,019 (13) |
| | TWSM-PWID | 28 (4) | 59 (1) |
| | Heterosexual | 45 (7) | 283 (4) |
| | Other/Unidentified | 7 (1) | 112 (1) |
| | | | |
| Age in years (as of 12/31/2020) | 13-24 | 4 (<1) | 50 (1) |
| | 25-29 | 21 (3) | 150 (2) |
| | 30-39 | 105 (16) | 810 (10) |
| | 40-49 | 147 (22) | 1,288 (16) |
| | 50-59 | 213 (32) | 2,764 (35) |
| | 60-69 | 130 (20) | 2,113 (27) |
| | 70+ | 44 (7) | 680 (9) |
| | | | |

Health Disparities: PrEP cascade for clients at San Francisco AIDS Foundation, 2020



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Proportion of PrEP eligible MSM currently on PrEP¹ by Race/ethnicity, San Francisco City Clinic, 2014-2020



2020 HIV Epi Annual Report available at:

<http://www.sfdph.org/dph/files/reports/default.asp>

For printed report, email:
sharon.pipkin@sfdph.org