SAN FRANCISCO WHOLE PERSON CARE Homeless Mortality in San Francisco

2019-2020 2021, January through June only

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Purpose of Review

- Inform quality improvement efforts to prevent homeless deaths
- Inform provider outreach efforts following deaths
- Monitor trends over time

Methodology DATA SOURCES

OFFICE OF THE CHIEF MEDICAL EXAMINER (OCME)

The OCME's responsibilities include autopsies in case of deaths from:

- Accident or injury
- Potential homicides or suicides
- Solitary deaths (body found)
- Physician unsure of cause of death
- Poisoning (including drugs)
- Deaths related to suspected criminal activity
- Deaths of unidentified individuals
- Indigent (unclaimed) cases

COORDINATED CARE MANAGEMENT SYSTEM (CCMS)

Integrated, interagency dataset from the San Francisco Department of Public Health

CCMS matches and merges citywide health and social service data into unique records for individuals observed or reported to be homeless by the DPH and the Department of Homelessness and Supportive Housing. CCMS also includes information from the California Death Registry.

Methodology CASE REVIEW PROCESS

Initial report from OCME

2. Final report from OCME **3.** Linked to CCMS

Identifiers, date and location of death

2019 n=147 2020 n=278 First half of 2021 n=156 Cause and manner of death, autopsy and toxicology reports

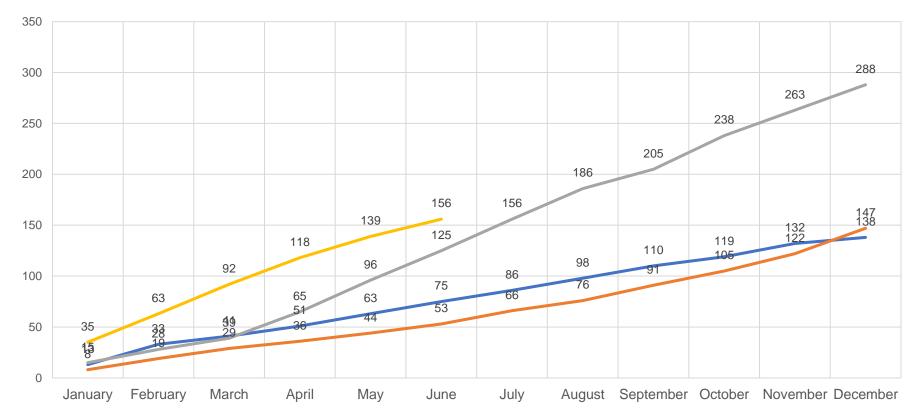
2019 n=135 2020 n=215 First half of 2021 n=24 Demographics, diagnostic codes and service utilization

2019 n=142 2020 n=255 First half of 2021 n=145

Demographics SAN FRANCISCO HOMELESS DEATHS 2016 – 2020

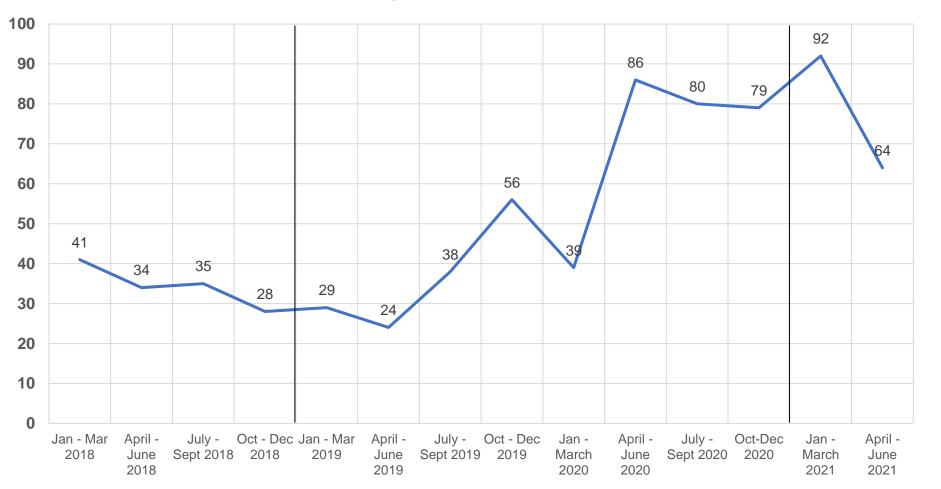
ANNUAL TOTALS CCMS DATA 3% of cases of OCME cases of homeless deaths in 2019, 8% of cases 2016: 128 in 2020, and 7% in the first half of 2021 had no CCMS records (had not used SF 2017: 128 health or social services prior to death) 2018: 138 2019: 147 2020: 278 2021 (Jan-Jun): 156

Cumulative homeless deaths 2018, 2019, 2020, 2021(Jan-June)



-2018 -2019 -2020 -2021

Homeless Deaths per 3 months, Jan 2018 - June 2021



Demographics GENDER, RACE/ETHNICITY, AND AGE

2019

GENDER

84% of cases were male, 16% female

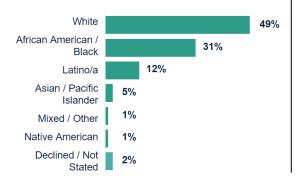
AGE

Average age of **46** (min=18, max=86)

AGE AT TIME OF DEATH



RACE AND ETHNICITY



2020

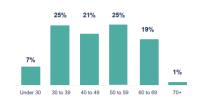
GENDER

79% of cases were male, 21% female, 1% transgender or other

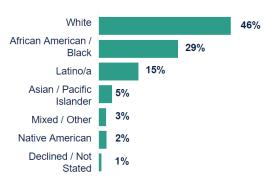
AGE

Average age of 47 (min=19, max=77)

AGE AT TIME OF DEATH



RACE AND ETHNICITY



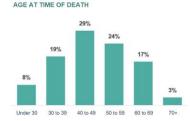
2021

GENDER

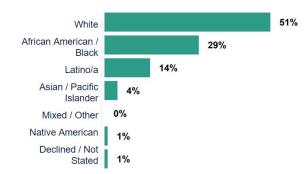
85% of cases were male, 15% female

AGE

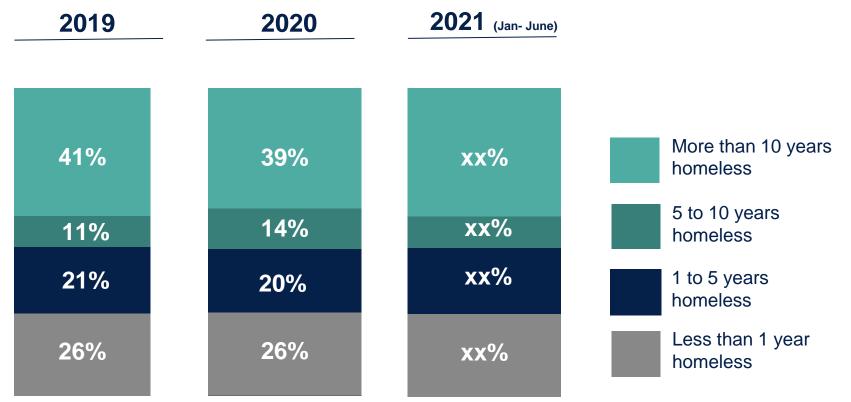
Average age of **48** (min=0, max=79)



RACE AND ETHNICITY



HOUSING STATUS-YEARS HOMELESS IN SF*



Utilization History MEDICAL, MENTAL HEALTH AND SUBSTANCE USE DISORDER SERVICES

| 2019 | 76% used medical services in the year prior to death | 30% used mental health services in the year prior to | <u>20%</u> used substance use disorder services in the year prior to death |
|------|---|--|--|
| 2020 | 63% used medical services in the year prior to death | <u>26%</u> used mental health services in the year prior to death | <u>14%</u> used substance use disorder services in the year prior to death |
| 2021 | 71% used medical services in the year prior to death | 25% used mental health services in the year prior to death | <u>17%</u> used substance use disorder services in the year prior to death |
| | includes medical emergency department, inpatient stays, medical respite, SFDPH primary care visits, urgent care visits | includes SFGH Psychiatric Emergency Services, inpatient psychiatric stays, outpatient appointments, urgent care/day crisis, residential treatment, case management, Hummingbird psychiatric respite | includes sobering center, residential detox, residential treatment, methadone maintenance, outpatient counseling |

Utilization history JAIL HEALTH

2019

<u>35%</u> had a jail health day in the year prior to death

11% in the 30 days prior to death

2020

29% had a jail health day in the year prior to death

7% in the 30 days prior to death

2021(Jan-June)

<u>17%</u> had a jail health day in the year prior to death

3% in the 30 days prior to death

Utilization History SHELTER-IN-PLACE ALTERNATIVE HOUSING

| Total guests served in all sites | Total guests served in SIP hotels/trailers | Total guests served in SIP congregate | Total guests served in I/Q sites | |
|--|--|---|--|--|
| 9,093 | 3,864 | 1,833 | 4,419 | |
| City and County of San Francisco | | | | |

Data is from 3/19/2020 through 6/30/2021

- 68 deaths in SIP or I/Q hotel rooms (x% of total deaths)
- 18 deaths in other settings (Shelters, Navigation Centers and Safe Sleep Sites)

Utilization History HOMELESSNESS AND SUPPORTIVE HOUSING SERVICES

ANY HSH PERMANENT SUPPORTIVE HOUSING HISTORY IN CCMS*

3% of cases in 2019, 5% of cases in 2020, and XX% of cases in 2021(Jan-June) had previously been housed in permanent supportive housing

ADULT COORDINATED ENTRY ASSESSMENT

2019

- 18% assessed
- 9% housing referral status (35% of those assessed were prioritized)

2020

- 36% assessed
- 8% housing referral status (21% of those assessed were prioritized)

2021(Jan-June)

- xx% assessed
- x% housing referral status (xx% of those assessed were prioritized)

*Includes WPC housing stabilization services since 2018 and lifetime of the Direct Access to Housing portfolio

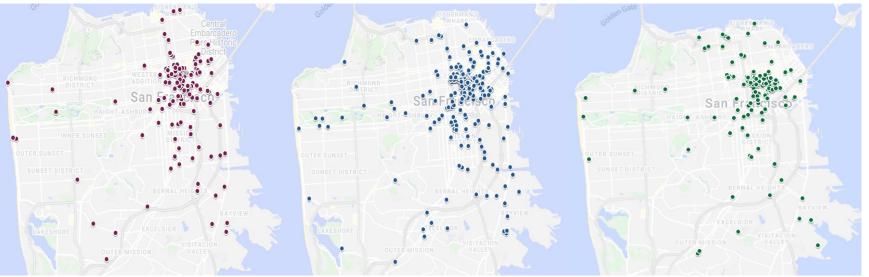
Medical History HISTORICAL ELIXHAUSER COMORBIDITIES FOR INDIVIDUALS WITH CCMS HISTORY 2019, 2020, 2021 (Jan-Jun)

| | HIV/AIDS | CHF | RENAL FAILURE | LIVER DISEASE | DIABETES |
|--------------------------|----------|-----|------------------|------------------|----------|
| 2019 | 5% | 13% | 6% | 23% | 11% |
| 2020 | 5% | 9% | 4% | 20% | 11% |
| 2021 (Jan-Jun) | 9% | 8% | 4% | 21% | 6% |

| | COPD | PSYCHOSIS | DEPRESSION | ALCOHOL | SUD |
|--------------------------|------|-----------|------------|---------|-----|
| 2019 | 21% | 34% | 36% | 52% | 69% |
| 2020 | 19% | 40% | 43% | 47% | 67% |
| 2021 (Jan-Jun) | 17% | 41% | 39% | 39% | 63% |

Circumstances of death

Circumstances of death LOCATION OF INCIDENT (MAY DIFFER FROM LOCATION OF DEATH) 2019, 2020



Location of incident available for 144 cases

Location of incident available for 260 cases

Location of incident available for 146 cases

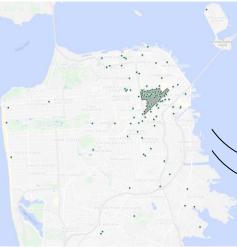
2019

2020

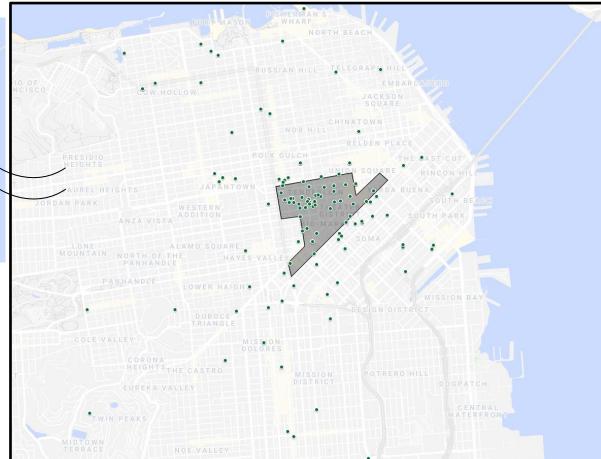
2021 (1/1/2021-6/30/2021)

LOCATION OF INCIDENT (MAY DIFFER FROM LOCATION OF DEATH) first half of 2021

Circumstances of death LOCATION OF INCIDENT (MAY DIFFER FROM LOCATION OF DEATH) first half of 2021 Tenderloin highlighted



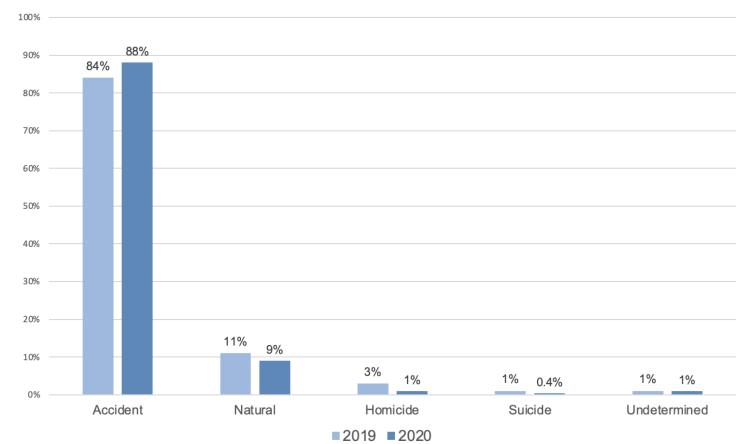
2021 (1/1/2021-6/30/2021)



Circumstances of death LOCATION OF DEATH

| LOCATION OF DEATH | 2019 | 2020 | 2021 _(Jan-June) |
|--|------|------|----------------------------|
| Outdoors (Street, sidewalk, encampment, vehicle, park) | 56% | 55% | 50% |
| Medical facility (Hospital ED, hospital inpatient, hospice) | 25% | 17% | 15% |
| Residence (Private home or room where decedent was not a tenant) | 10% | 9% | 4% |
| Public building (Church, library, shopping center) | 3% | 1% | 0% |
| Hotel room (Market rate hotel/motel, non-SIP stabilization room) | 3% | 5% | 9% |
| Shelter (Congregate shelter, navigation center) | 2% | 1% | 1% |
| SiP Room (Shelter-in-place hotel sites) | | 11% | 18% |
| Safe Sleep site (Safe Sleep parking lot) | | 2% | 2% |
| Jail (SF County Jail custody) | | <1% | 0% |

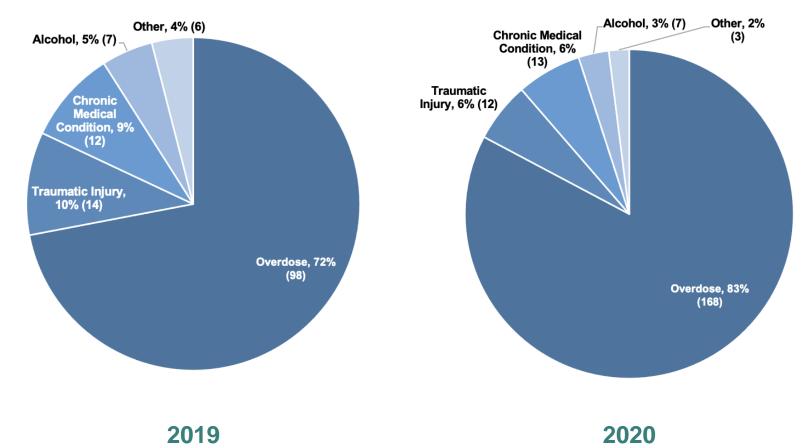
Circumstances of death MANNER OF DEATH — CATEGORIES FROM THE OFFICE OF THE CHIEF MEDICAL EXAMINER (2019, 2020)



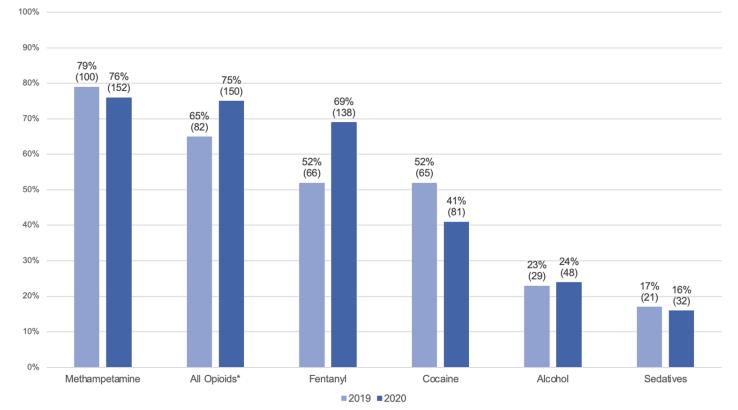
Circumstances of death COVID-19

- All OCME cases are tested for COVID-19
- 3 cases in 2020 were positive post-mortem but COVID was not listed as primary cause of death
- Data SF reports 5 out of 550, or less than 1%, of COVID-19 deaths in SF (as of June 15 2021) were people experiencing homelessness

Circumstances of death MOST COMMON CAUSES OF DEATH



Circumstances of death TOXICOLOGY RESULTS — SUBSTANCES PRESENT IN REPORTS N = 126 FOR 2019; N = 199 FOR 2020



*Buprenorphine present in 0 cases in 2019 and 2 cases in 2020

Benefits of this methodology

- Potential for real time intervention in area deaths occur and to emerging trends
- Allows analysis based on both forensic pathology lab and comprehensive health history
- Processes usually the same year to year and therefore comparing trends has validity
- Homelessness strictly defined as not housed at time of death

Challenges of this methodology

- Dependent on cooperation of Medical Examiners Office which has competing demands
 - Not funded by public health
 - Not having mandates to work with public health
- Medical examiner methodology may change
- Health record connectivity may change
- Very time consuming to do manual reviews to determine homelessness and at times match identifiers
- Misses natural deaths that are not ME cases
- Very difficult to compare to other counties or cities using different methodology

Conclusions

- Increase in deaths among people experiencing homelessness starting 3/2020 due to increase in overdose deaths
 - Coincident with COVID shelter in place suggests disruptions contributed to this but very few COVID deaths
 - Timing co-incident with fentanyl becoming predominant drug used among opioid users
 - Contribution of "unintentional" fentanyl use much less than intentional use but signeficant
- Unsheltered deaths predominate
- Congregate shelter or encampment settings associated with fewer deaths
- Deaths in SIP hotels in between rates of outdoors and shelter

Conclusions

- Proportion Black African-American much higher than SF general population but equivalent or lower than proportion of PEH who are BAA (2019 PIT 37%)
- Deaths concentrated in central city but not exclusively
- Homeless population accounts for about 25% of SF overdose deaths
- Continue focus on overdose prevention and on central city area but not to the exclusion of other neighborhoods
- Further work needed to understand and intervene on very high-risk group with very low utilization of SUD treatment services
- Need similar review of formerly homeless individuals now in permanent housing

Thank you!

Special thanks to the SF Office of the Chief Medical Examiner

San Francisco Whole Person Care UCSF Evaluation of Whole Person Care San Francisco Department of Public Health

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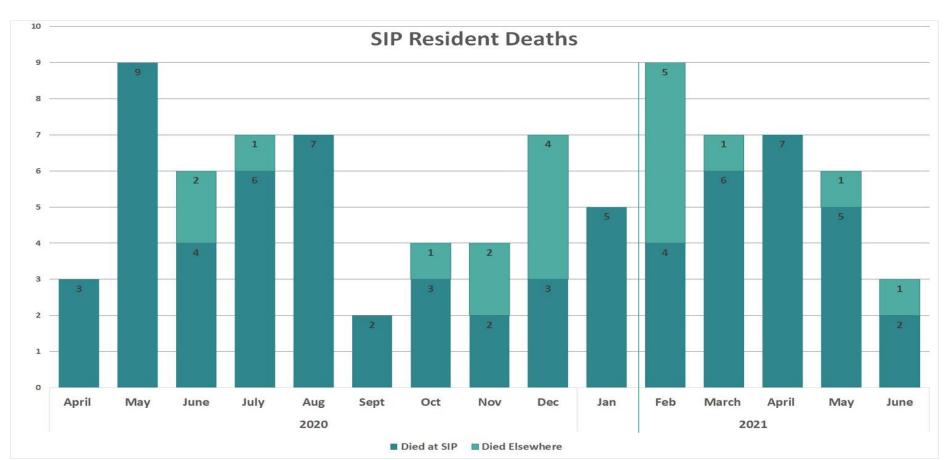
Appendix

Utilization History TEMPORARY SHELTER

| 2020 | 2021 (Jan- June) | | |
|--|-------------------------|--|-----|
| CONTACT WITH SHELTER IN PLACE HOTELS | | CONTACT WITH SHELTER IN PLACE HOTELS | |
| Any SIP Hotel History | 24% | Any SIP Hotel History | 29% |
| Death/incident in SIP Room | 14% | Death/incident in SIP Room | 19% |
| Living in SIP Room, died elsewhere | 4% | Living in SIP Room, died elsewhere | 5% |
| SIP exit prior to death date | 7% | SIP exit prior to death date | 6% |
| | | | |

SIP deaths

86 SIP Alternative Housing guests passed away during their stay



2019 Demographics GENDER, RACE/ETHNICITY, AND AGE

GENDER

Declined / Not

Stated

84% of cases were male, 16% female

AGE

49%

Average age of 46 (min=18, max=86)

White

African American /

Black

Latino/a

Latino/a

Islander

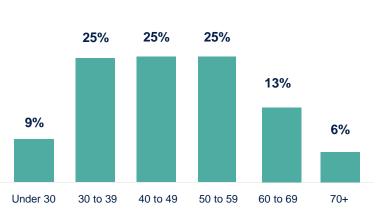
Mixed / Other

Native American

1%

2%

AGE AT TIME OF DEATH



San Francisco Whole Person Care 31

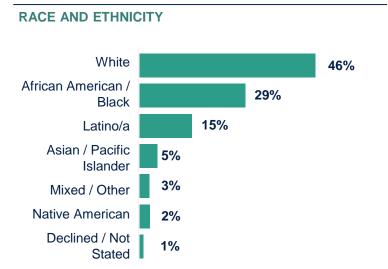
2020 Demographics GENDER, RACE/ETHNICITY, AND AGE

GENDER

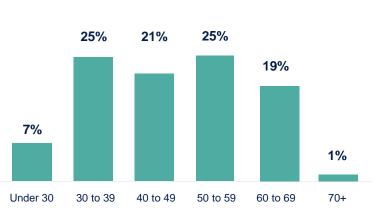
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Average age of **47** (*min=19*, *max=77*)



AGE AT TIME OF DEATH



San Francisco Whole Person Care 32

First-half 2021 Demographics GENDER, RACE/ETHNICITY, AND AGE

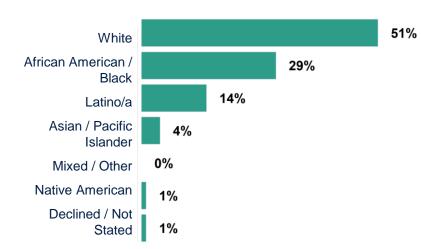
GENDER

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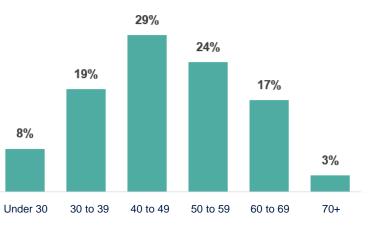
AGE

Average age of **48** (*min=0*, *max=79*)

RACE AND ETHNICITY



AGE AT TIME OF DEATH



San Francisco Whole Person Care 33

76% used medical services in the year prior to death 30% used mental health services in the year prior to death 20% used substance use disorder services in the year prior to death

(includes medical emergency department, inpatient stays, medical respite, SFDPH primary care visits, urgent care visits) (includes SFGH Psychiatric Emergency Services, inpatient psychiatric stays, outpatient appointments, urgent care/day crisis, residential treatment, case management, Hummingbird psychiatric respite) (includes sobering center, residential detox, residential treatment, methadone maintenance, outpatient counseling)

Utilization History - 2020 MEDICAL, MENTAL HEALTH AND SUBSTANCE USE DISORDER SERVICES

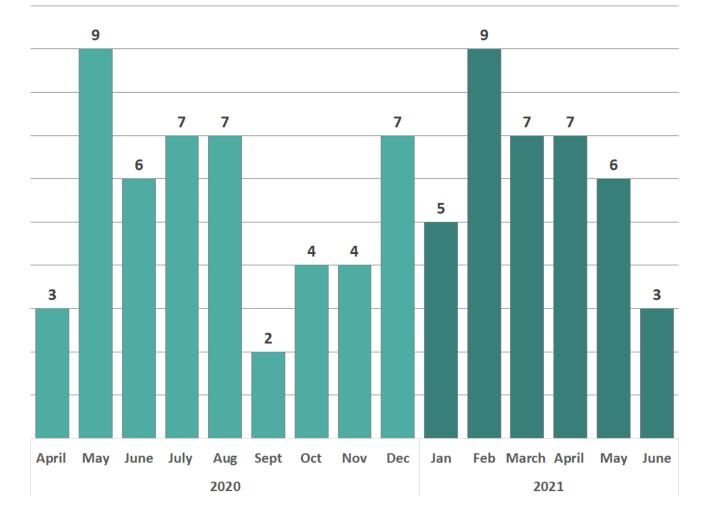
63% used medical services in the year prior to death 26% used mental health services in the year prior to death

<u>14%</u> used substance use disorder services in the year prior to death

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Placeholder- Stratify by cause of death [overdose] = 1

Contacts with mental health system - 2019

 30% used mental health services (includes SFGH Psychiatric Emergency Services, inpatient psychiatric stays, outpatient appointments, urgent care/day crisis, residential treatment, case management, Hummingbird psychiatric respite) in the year prior to death.

| Last instance of mental health service use in year prior to death | % |
|---|-----|
| 1 day – 10 days | 7% |
| 10 – 30 days | 6% |
| 30 – 180 days | 12% |
| 180 days – 12 months | 7% |
| No mental health services in last 12 months | 70% |

Contacts with mental health system - 2020

 26% used mental health services (includes SFGH Psychiatric Emergency Services, inpatient psychiatric stays, outpatient appointments, urgent care/day crisis, residential treatment, case management, Hummingbird psychiatric respite) in the year prior to death.

| Last instance of mental health service use in year prior to death | % |
|---|-----|
| 1 day – 10 days | 5% |
| 10 – 30 days | 4% |
| 30 – 180 days | 12% |
| 180 days – 12 months | 6% |
| No mental health services in last 12 months | 74% |

Placeholder- Stratify by cause of death [overdose] = 1—XX% of those who