

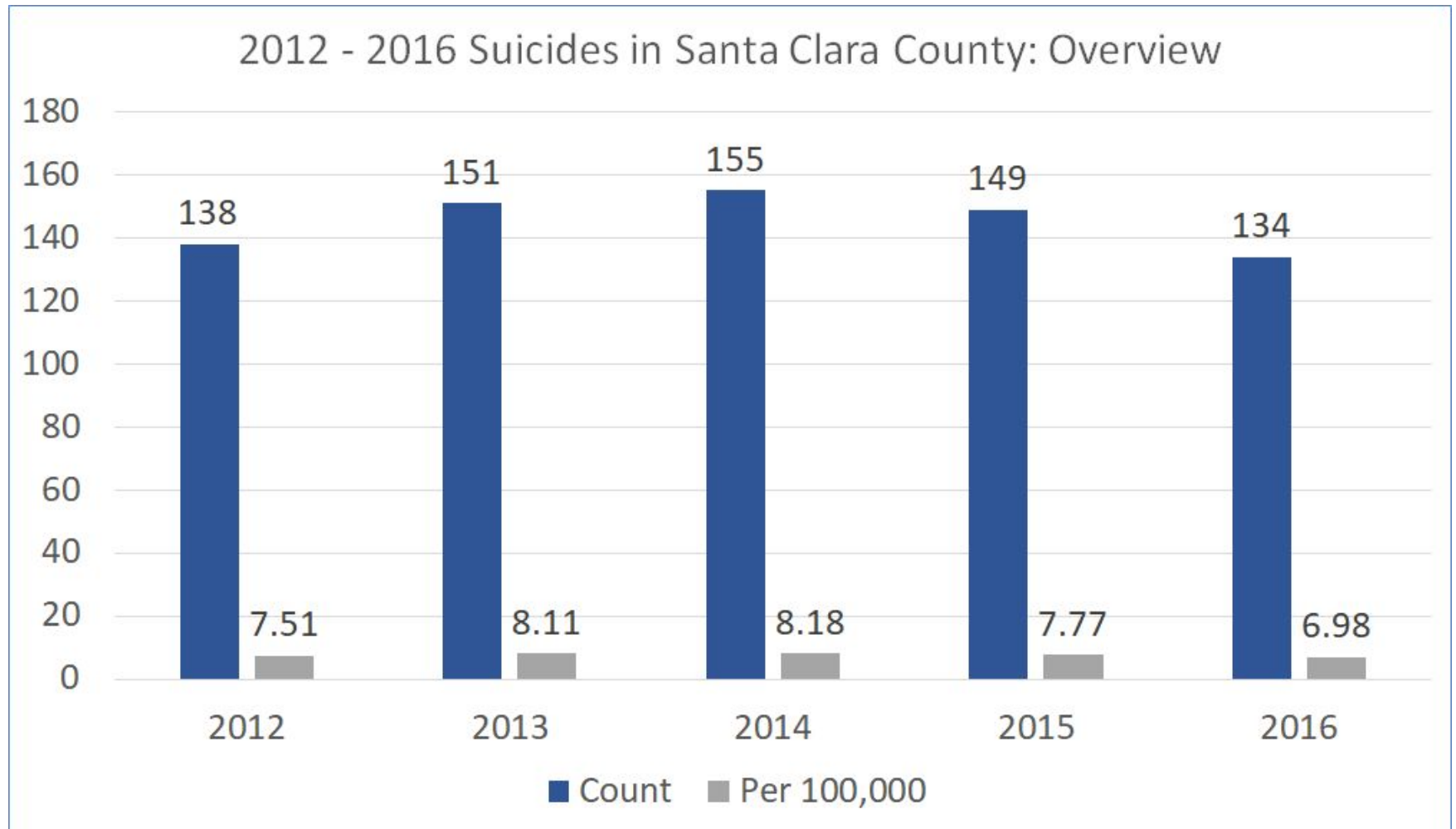


SANTA CLARA COUNTY
Behavioral Health Services

**Suicide Prevention Oversight Committee
2016 Medical Examiner Data Analysis**

**SUICIDE PREVENTION DATA WORKGROUP
JANUARY 10, 2018**

Overall Suicide Rates



Source: U.S. Census Bureau, 2012-2016 American Community Survey 5-Year Estimates
Source: U.S. Census Bureau, 2011-2015 American Community Survey 5-Year Estimates
Source: U.S. Census Bureau, 2010-2014 American Community Survey 5-Year Estimates
Source: U.S. Census Bureau, 2009-2013 5-Year American Community Survey
Source: U.S. Census Bureau, 2008-2012 American Community Survey

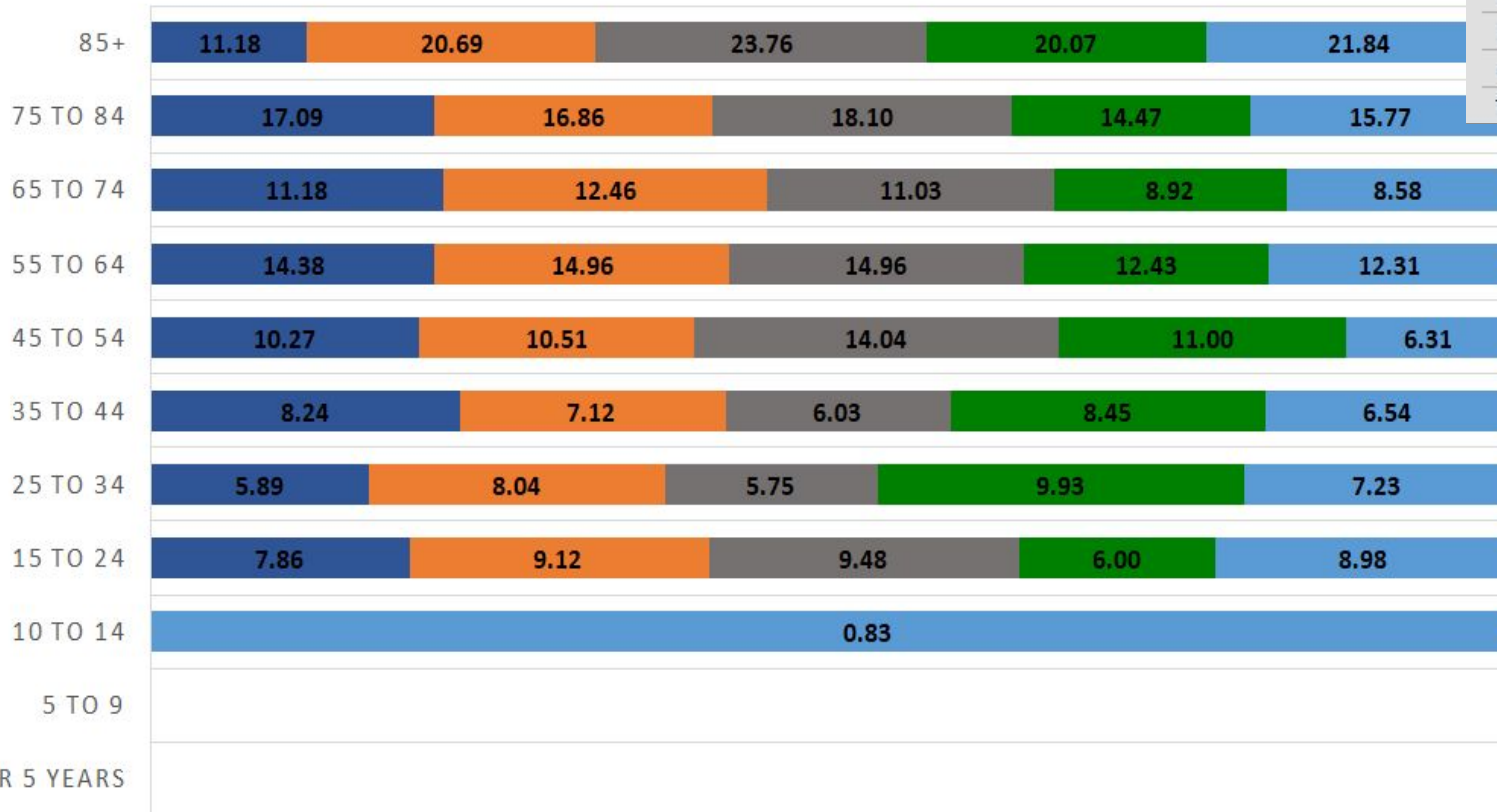
Analysis by Demographics

Age Group

2016 Sample

**SUICIDE DEATH RATE PER 100,000
BY AGE GROUP FROM 2012-2016**

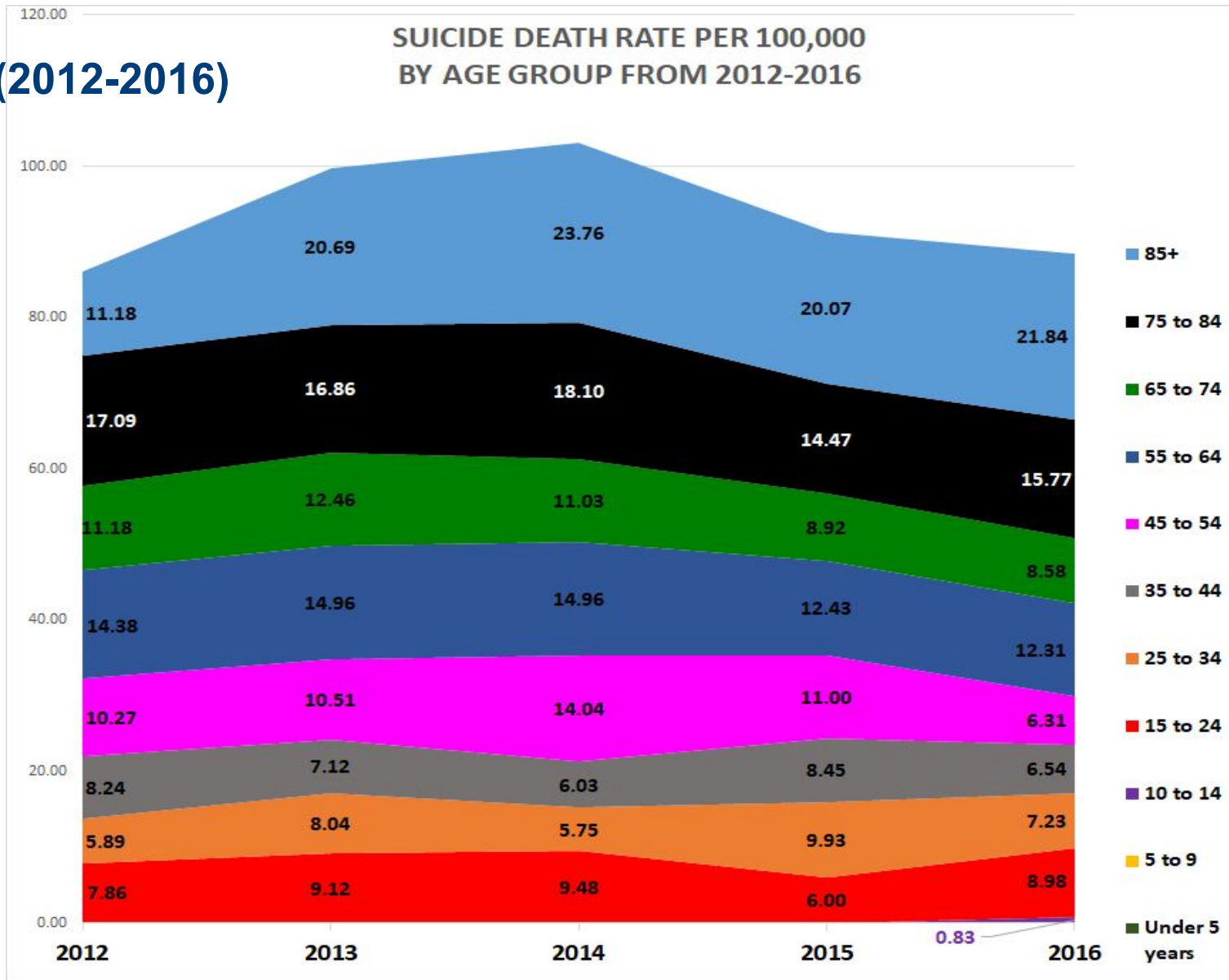
■ 2012 ■ 2013 ■ 2014 ■ 2015 ■ 2016



	Frequency	Percent
10 to 14	1	.7
15 to 24	21	15.7
25 to 34	21	15.7
35 to 44	19	14.2
45 to 54	17	12.7
55 to 64	26	19.4
65 to 74	11	8.2
75 to 84	11	8.2
over 85	7	5.2
Total	134	100.0

Source: U.S. Census Bureau, 2012-2016 American Community Survey 5-Year Estimates
 Source: U.S. Census Bureau, 2011-2015 American Community Survey 5-Year Estimates
 Source: U.S. Census Bureau, 2010-2014 American Community Survey 5-Year Estimates
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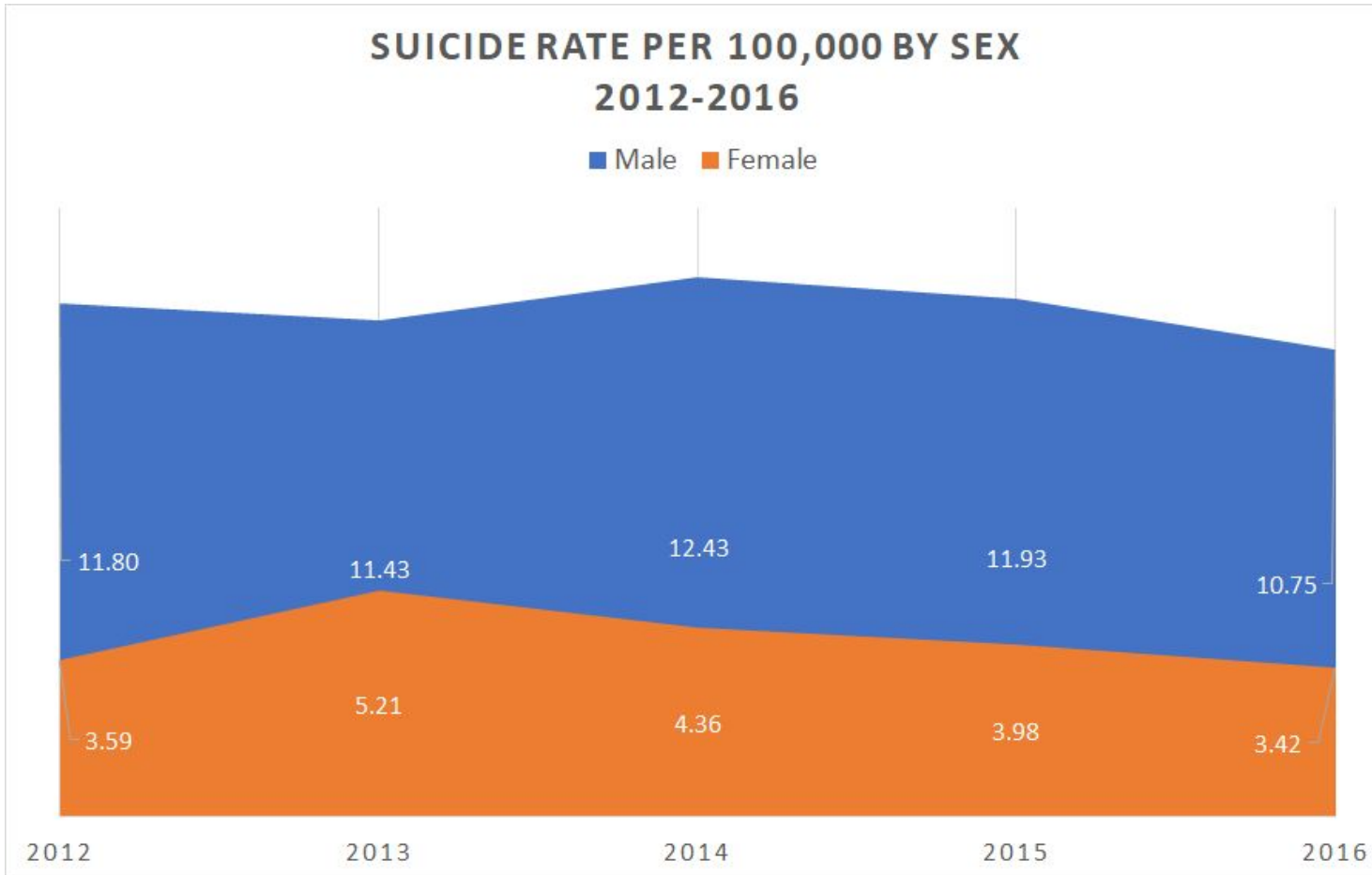
Age Group (2012-2016)



Source: U.S. Census Bureau, 2012-2016 American Community Survey 5-Year Estimates
 Source: U.S. Census Bureau, 2011-2015 American Community Survey 5-Year Estimates
 Source: U.S. Census Bureau, 2010-2014 American Community Survey 5-Year Estimates
 Source: U.S. Census Bureau, 2009-2013 5-Year American Community Survey
 Source: U.S. Census Bureau, 2008-2012 American Community Survey

Sex at Birth (2012-2016)

Sex	Frequency	Population Total	Per 100,000
Male	102	949,223	10.75
Female	32	935,833	3.42

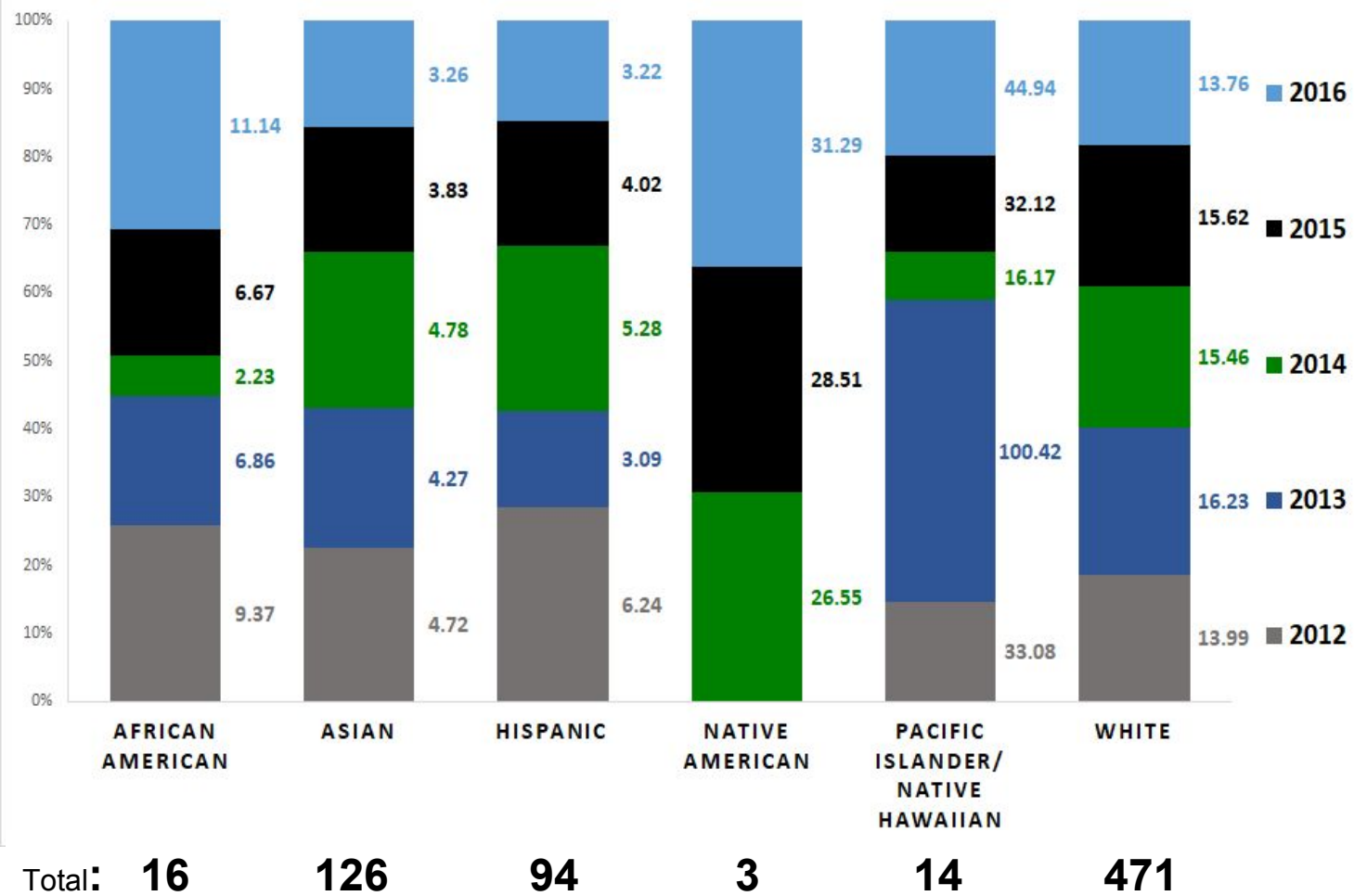


2016 Sample

Source: U.S. Census Bureau, 2012-2016 American Community Survey 5-Year Estimates
 Source: U.S. Census Bureau, 2011-2015 American Community Survey 5-Year Estimates
 Source: U.S. Census Bureau, 2010-2014 American Community Survey 5-Year Estimates
 Source: U.S. Census Bureau, 2009-2013 5-Year American Community Survey
 Source: U.S. Census Bureau, 2008-2012 American Community Survey

Race/Ethnicity (2012-2016)

SUICIDE RATES FROM 2012-2016
BY RACE/ETHNICITY



*Decedents who were categorized as “Unknown” and “Other/Multiple Races” are not included in this graph, as the count for the past 5 years was too low.

Source: U.S. Census Bureau, 2012-2016 American Community Survey 5-Year Estimates
 Source: U.S. Census Bureau, 2011-2015 American Community Survey 5-Year Estimates
 Source: U.S. Census Bureau, 2010-2014 American Community Survey 5-Year Estimates
 Source: U.S. Census Bureau, 2009-2013 5-Year American Community Survey
 Source: U.S. Census Bureau, 2008-2012 American Community Survey

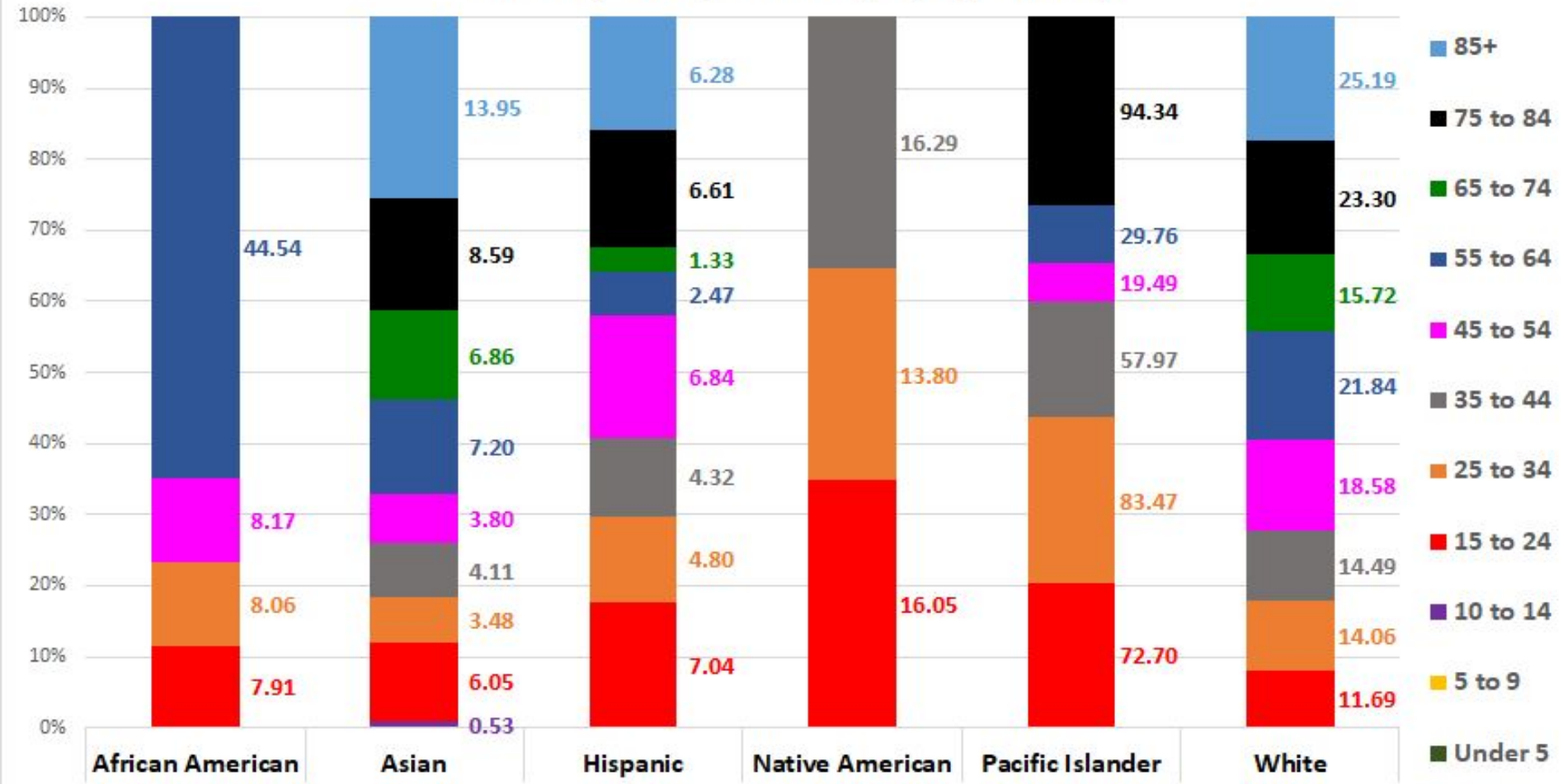
Race/Ethnicity by Sex

Generally, males across all racial/ethnic groups die by suicide more than females. The data from 2016 supported this pattern.

	Female	Male	Total
White or Caucasian	22	64	86
Asian	4	17	21
Hispanic or Latino	5	11	16
Native American or American Indian or Alaska Native	0	1	1
African American or Black	0	5	5
Pacific Islander or Native Hawaiian	1	2	3
Unknown	0	1	1
Other or Multiple Races	0	1	1
	32	102	134

Race/Ethnicity by Age Group (2012-2016)

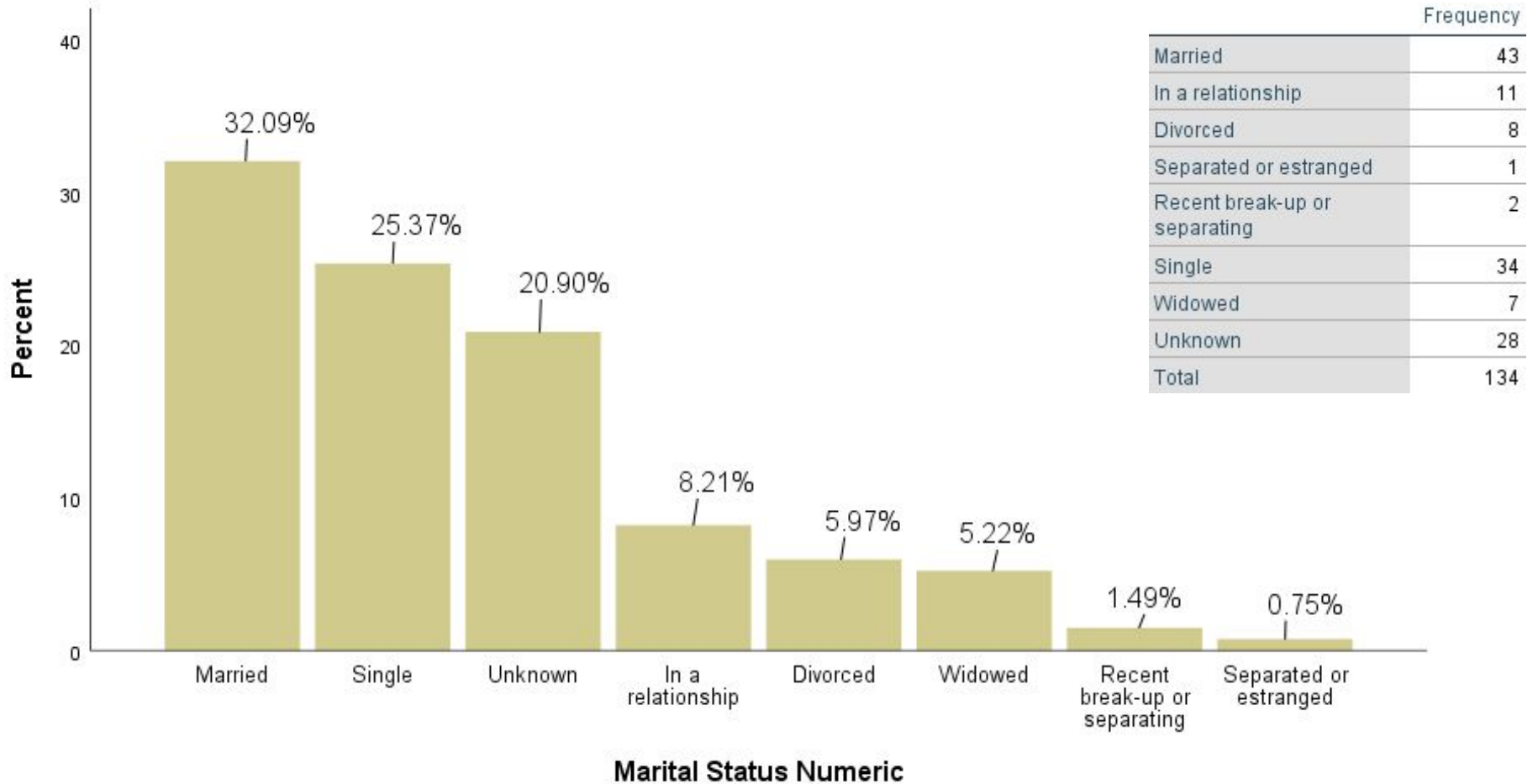
Suicide Rates Aggregated from 2012-2016 from Santa Clara County
Rates by Race/Ethnicity by Age Group



Source: U.S. Census Bureau, 2012-2016 American Community Survey 5-Year Estimates
 Source: U.S. Census Bureau, 2011-2015 American Community Survey 5-Year Estimates
 Source: U.S. Census Bureau, 2010-2014 American Community Survey 5-Year Estimates
 Source: U.S. Census Bureau, 2009-2013 5-Year American Community Survey
 Source: U.S. Census Bureau, 2008-2012 American Community Survey

Marital Status (2016 data)

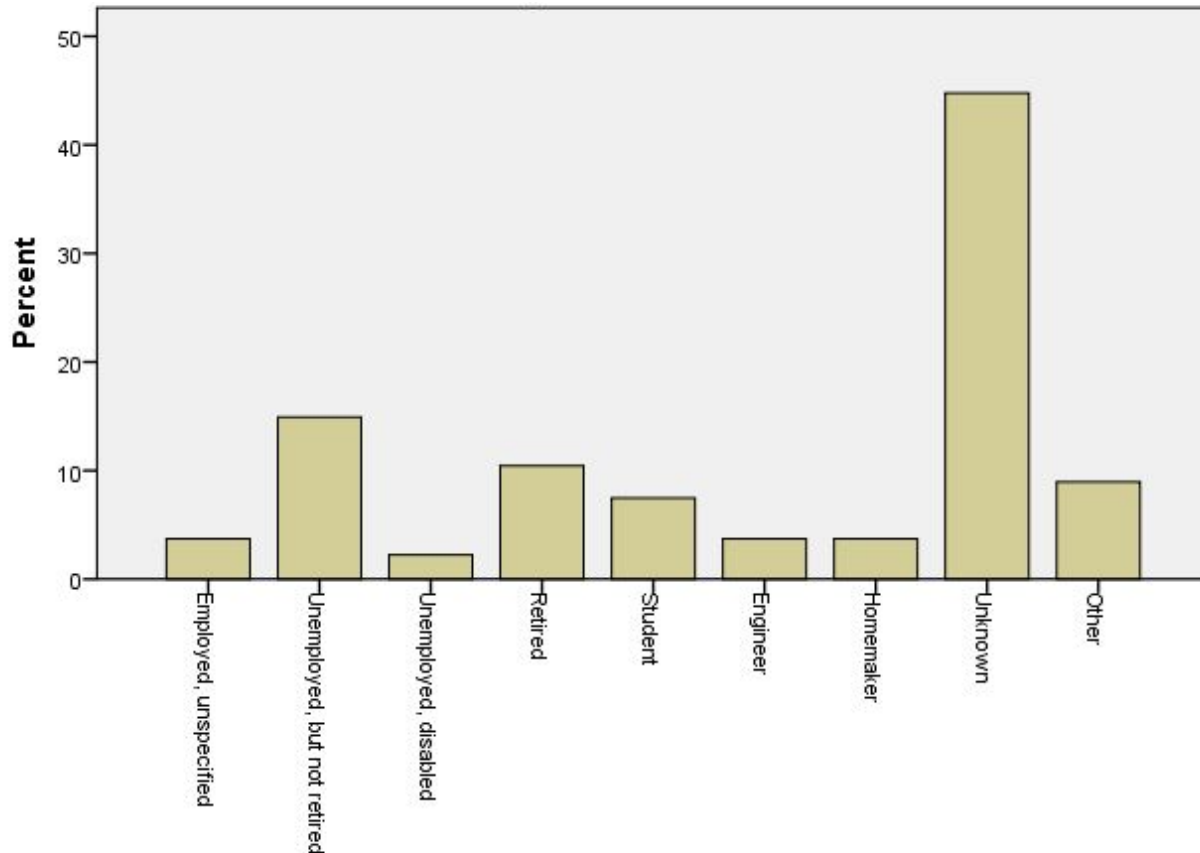
Marital status of decedents are listed. It should be noted that the actual personal status and quality of the relationships are not fully known, as data was gathered by the coroner through collateral information.



Occupation

The majority of decedents' occupation and employment status was unknown or not listed in the medical examiner reports. Of the occupations listed, occupations of interest that could be grouped with ease are included below.

	Frequency	Percent
Employed, unspecified	5	3.7
Unemployed, but not retired	20	14.9
Unemployed, disabled	3	2.2
Retired	14	10.4
Student	10	7.5
Engineer	5	3.7
Homemaker	5	3.7
Unknown	60	44.8
Other	12	9.0
Total	134	100.0



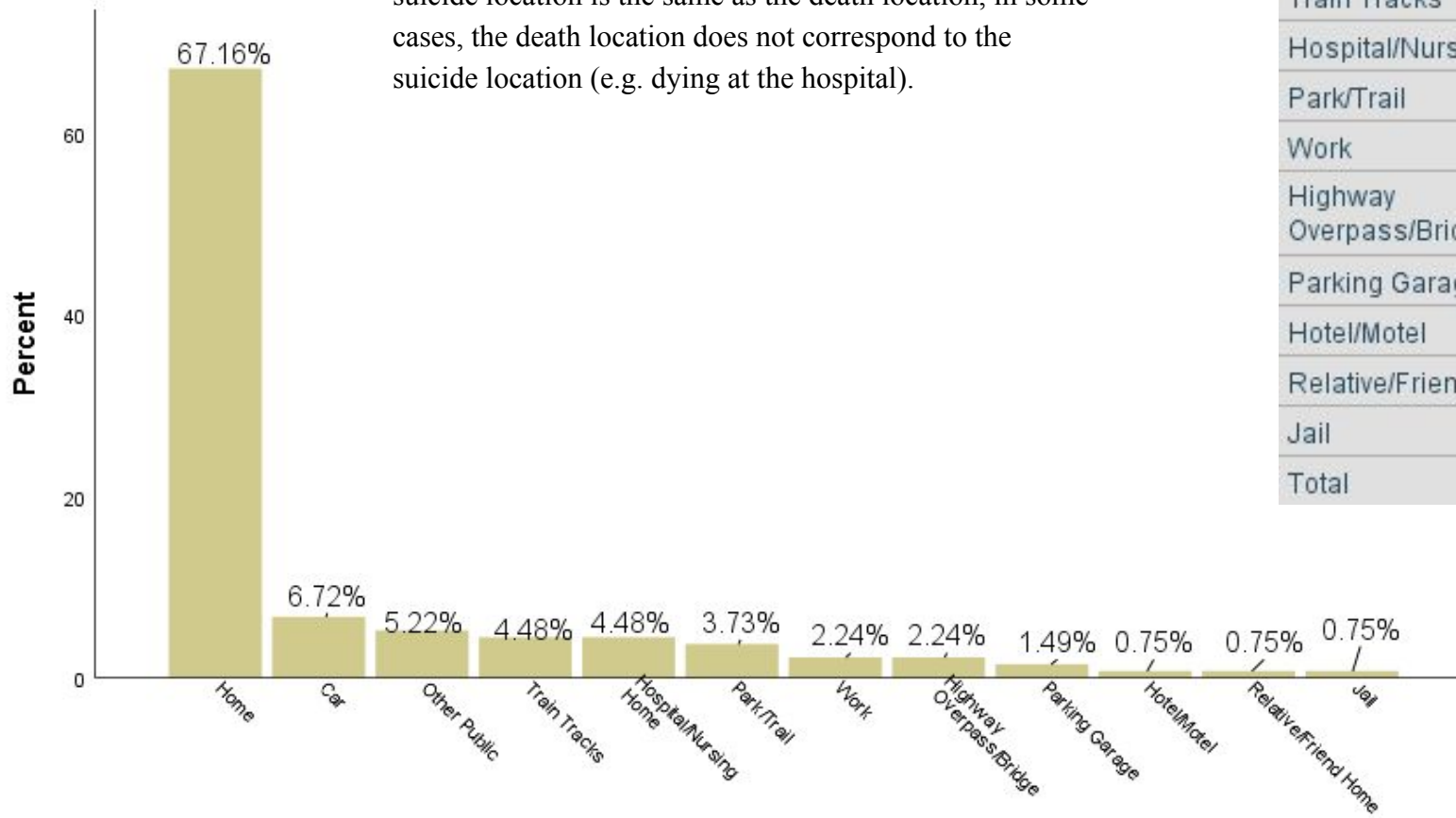
Of the cases categorized under “Other,” the following are the specific names of the various occupations:

	Frequency	Percent
	121	90.3
Dancer	1	.7
Day Laborer	1	.7
Floor contractor	1	.7
Grocery Clerk	1	.7
IT	1	.7
Nanny	1	.7
Painter	1	.7
Plumber	1	.7
Server	1	.7
Stocker	1	.7
Teachers Aid	1	.7
Technician	1	.7
Vice President	1	.7
Total	134	100.0

Analysis by Characteristics of the Suicide Death

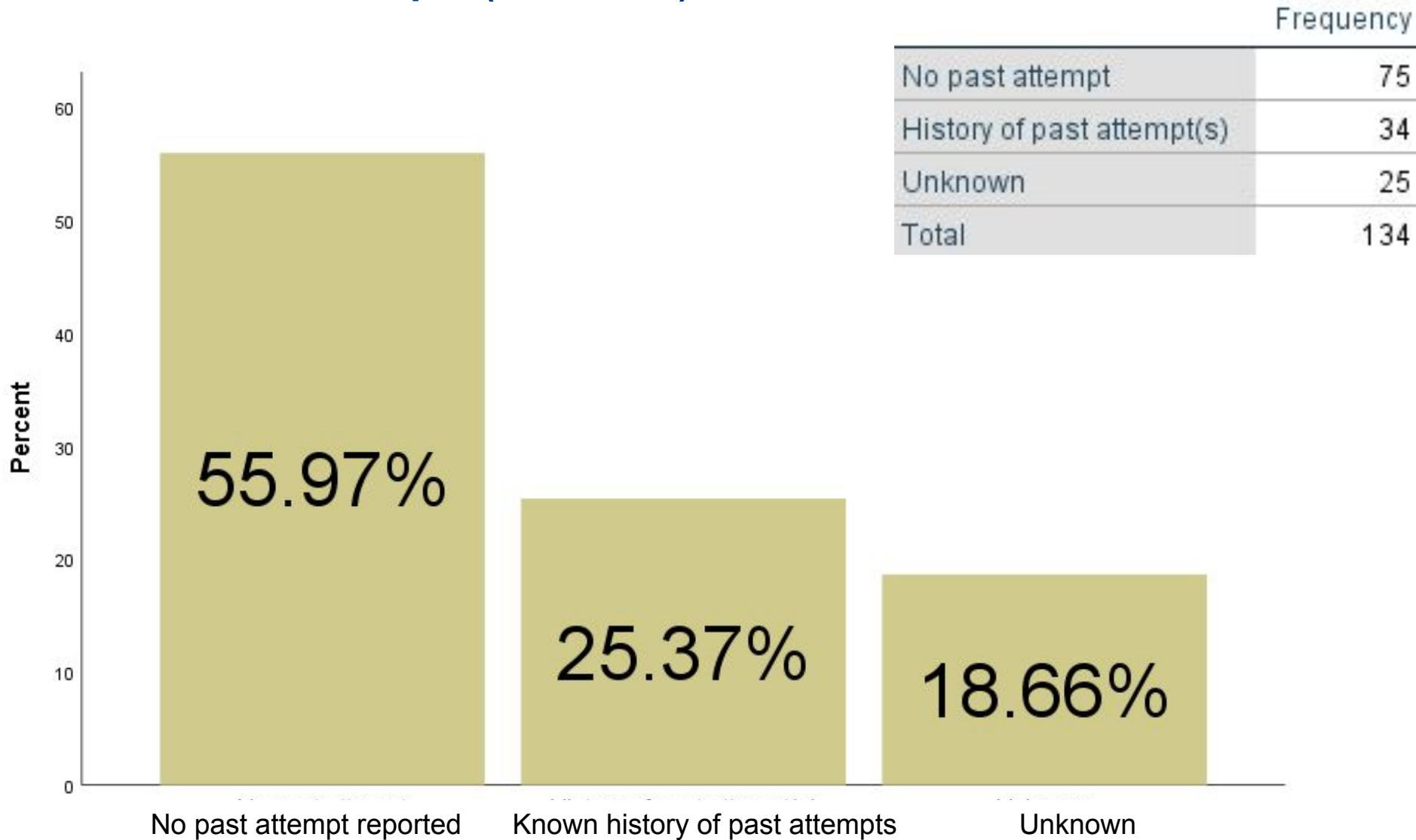
Suicide Location (2016 data)

The suicide location is the place in which the decedent had their fatal suicide attempt. While in most cases the suicide location is the same as the death location, in some cases, the death location does not correspond to the suicide location (e.g. dying at the hospital).

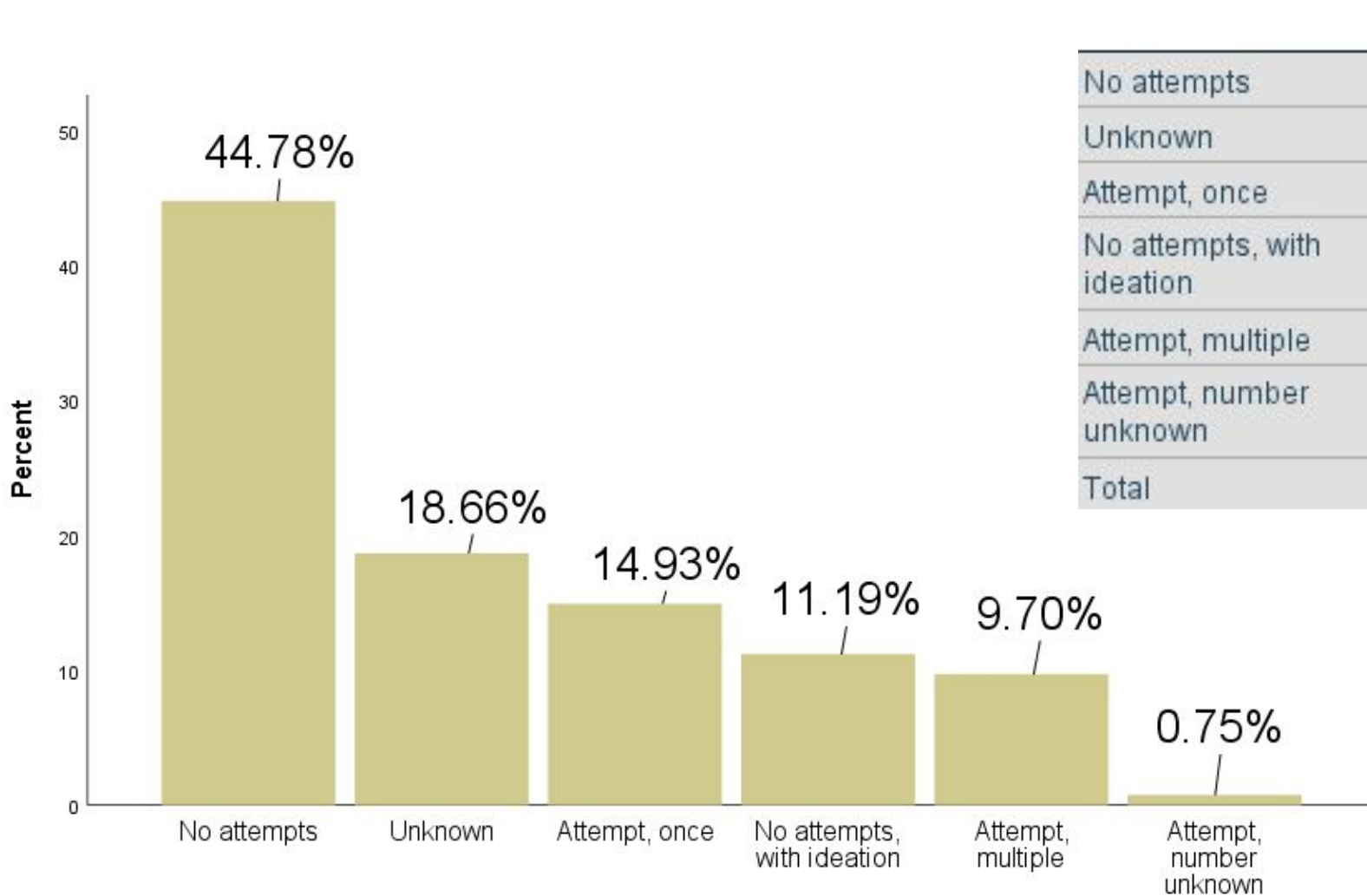


	Frequency
Home	90
Car	9
Other Public	7
Train Tracks	6
Hospital/Nursing Home	6
Park/Trail	5
Work	3
Highway Overpass/Bridge	3
Parking Garage	2
Hotel/Motel	1
Relative/Friend Home	1
Jail	1
Total	134

Past Suicide Attempts (2016 data) - Overview



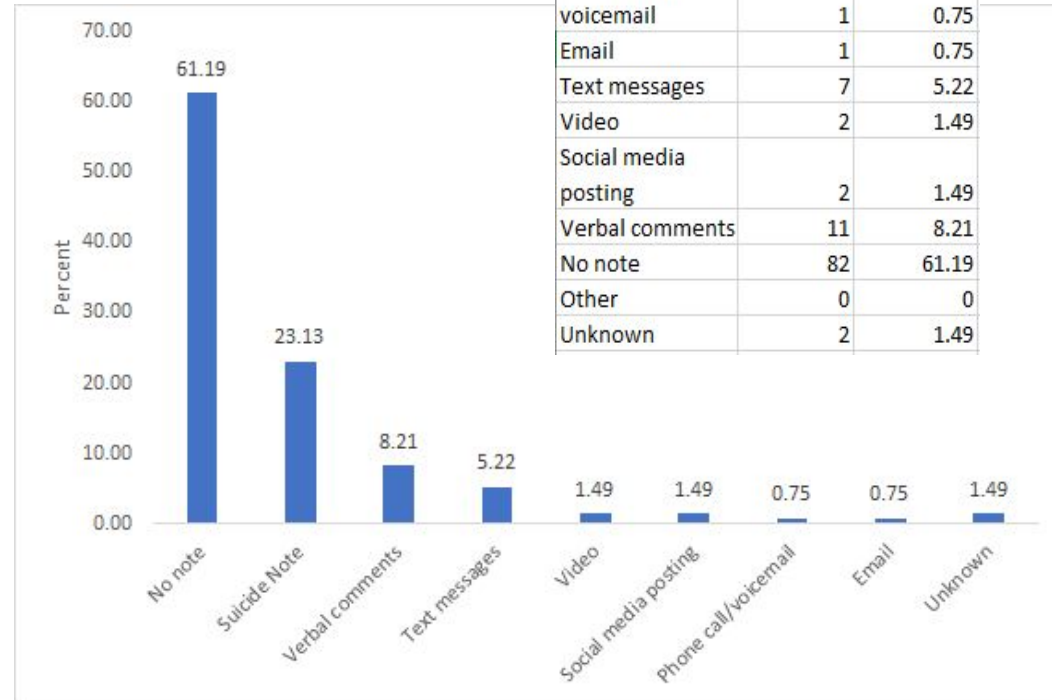
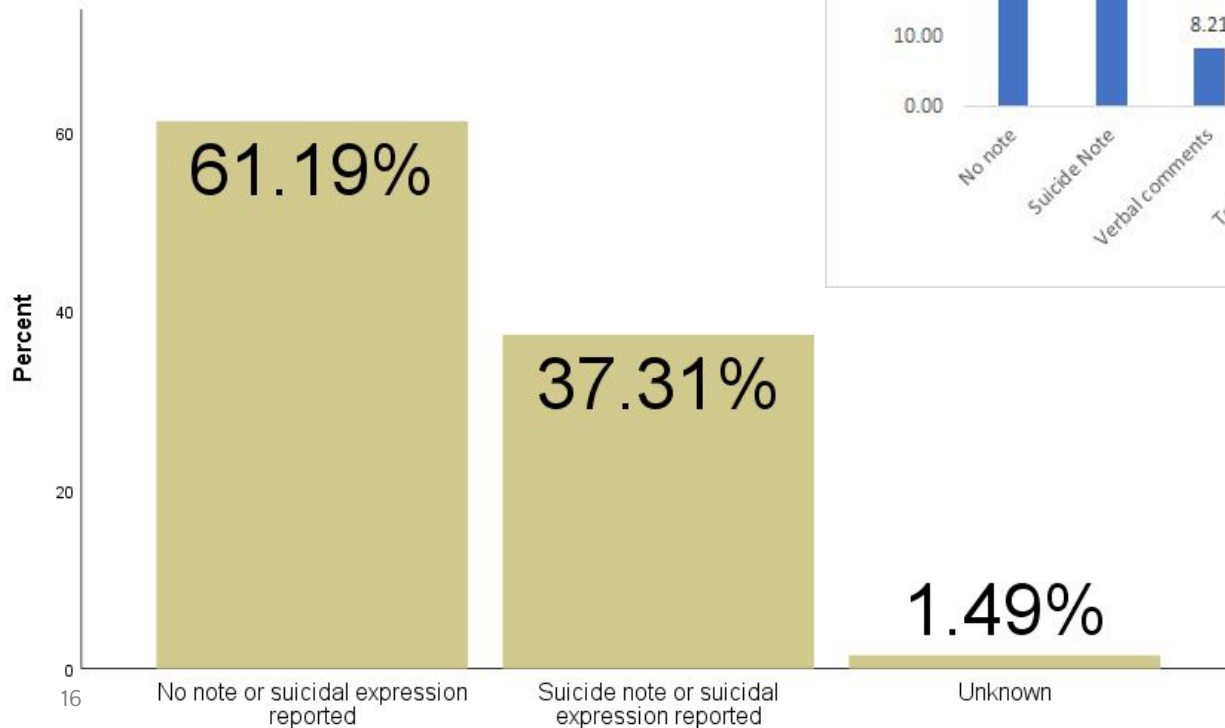
Past Suicide Attempts (2016 data) - Breakdown of Past Attempts



	Frequency
No attempts	60
Unknown	25
Attempt, once	20
No attempts, with ideation	15
Attempt, multiple	13
Attempt, number unknown	1
Total	134

Suicide Communication/Notes (2016 data)

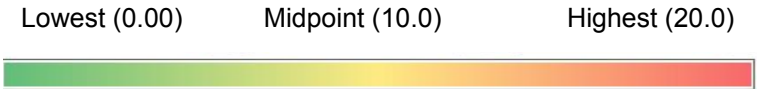
	Frequency
No note or suicidal expression reported	82
Suicide note or suicidal expression reported	50
Unknown	2
Total	134



Analysis by Suicide Decedents' City of Residence

City of Residence (2012-2016)

City	Death Rate per 100,000				
	Year				
	2012	2013	2014	2015	2016
Campbell	7.60	20.07	14.88	9.83	7.36
Cupertino	8.56	5.08	5.02	4.99	1.66
Gilroy	6.14	14.07	5.91	11.62	1.90
Los Altos	13.73	6.81	3.36	0.00	13.23
Los Gatos	10.16	13.42	13.26	16.45	9.84
Milpitas	2.99	8.86	8.65	5.59	4.08
Monte Sereno	0.00	0.00	0.00	0.00	0.00
Morgan Hill	13.15	10.30	5.02	14.68	4.78
Mountain View	4.03	6.62	14.33	3.85	3.81
Palo Alto	12.40	13.80	9.09	15.04	7.50
San Jose	6.18	6.71	7.40	6.59	4.76
Santa Clara	10.32	5.94	11.71	6.59	7.33
Saratoga	9.98	6.59	6.53	6.49	6.49
Sunnyvale	12.05	9.07	6.85	6.75	4.68



2016 Sample

City	Count	Population	Per 100,000
Campbell	3	40,788	7.36
Cupertino	1	60,297	1.66
Gilroy	1	52,576	1.90
Los Altos (City+Hills Town)	4	30,238	13.23
Los Gatos	3	30,491	9.84
Milpitas	3	73,447	4.08
Monte Sereno	0	3,514	0.00
Morgan Hill	2	41,839	4.78
Mountain View	3	78,827	3.81
Palo Alto	5	66,649	7.50
San Jose	48	1,009,363	4.76
Santa Clara	9	122,725	7.33
Saratoga	2	30,830	6.49
Sunnyvale	7	149,596	4.68

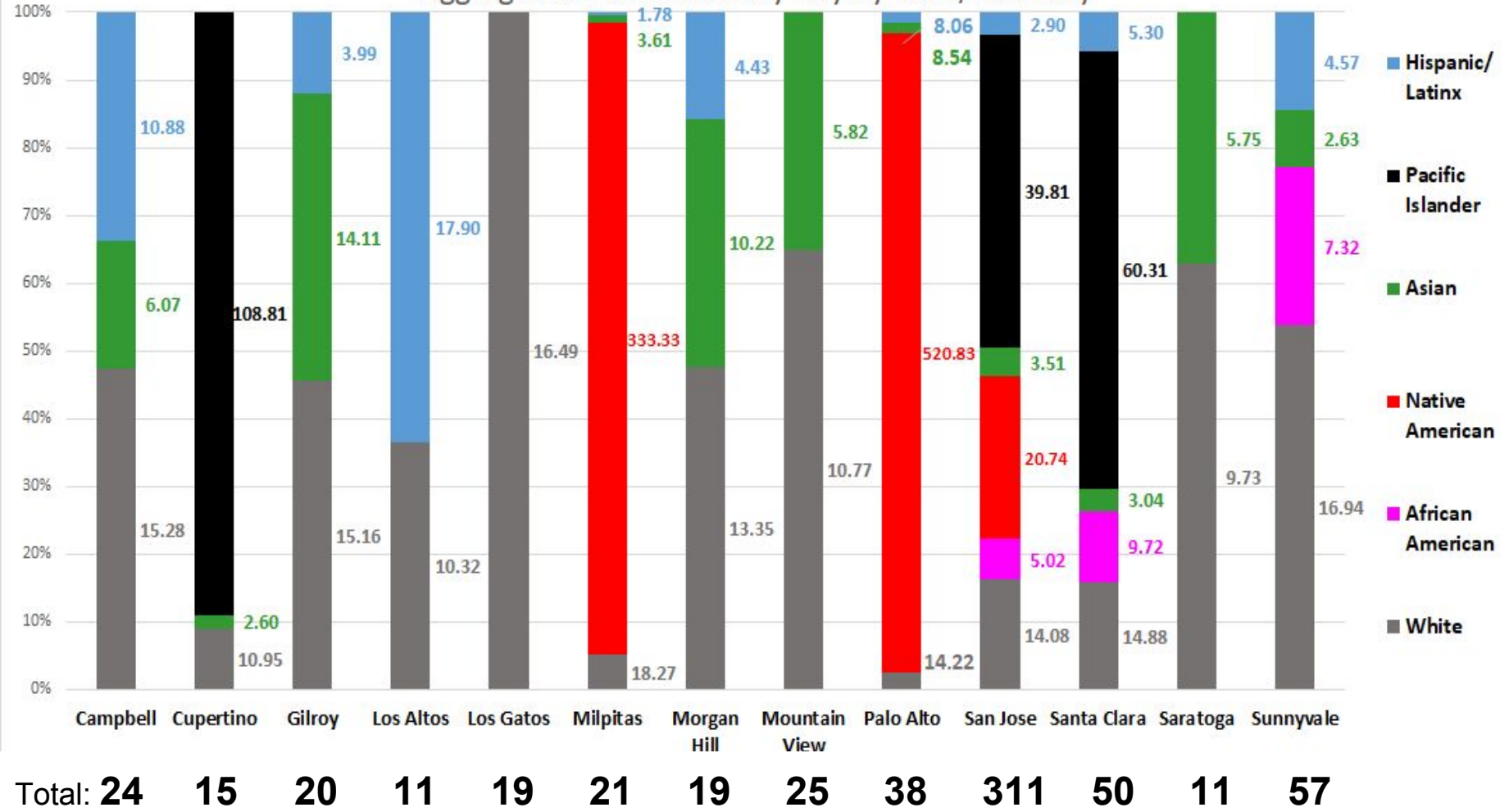
Source: U.S. Census Bureau, 2012-2016 American Community Survey 5-Year Estimates
 Source: U.S. Census Bureau, 2011-2015 American Community Survey 5-Year Estimates
 Source: U.S. Census Bureau, 2010-2014 American Community Survey 5-Year Estimates
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 Source: U.S. Census Bureau, 2008-2012 American Community Survey

City of Residence by Race/Ethnicity

Aggregate Rate of Suicide per 100,000

* Monte Sereno did not have any known suicide deaths from 2012-2016, and is therefore not included in the graph.

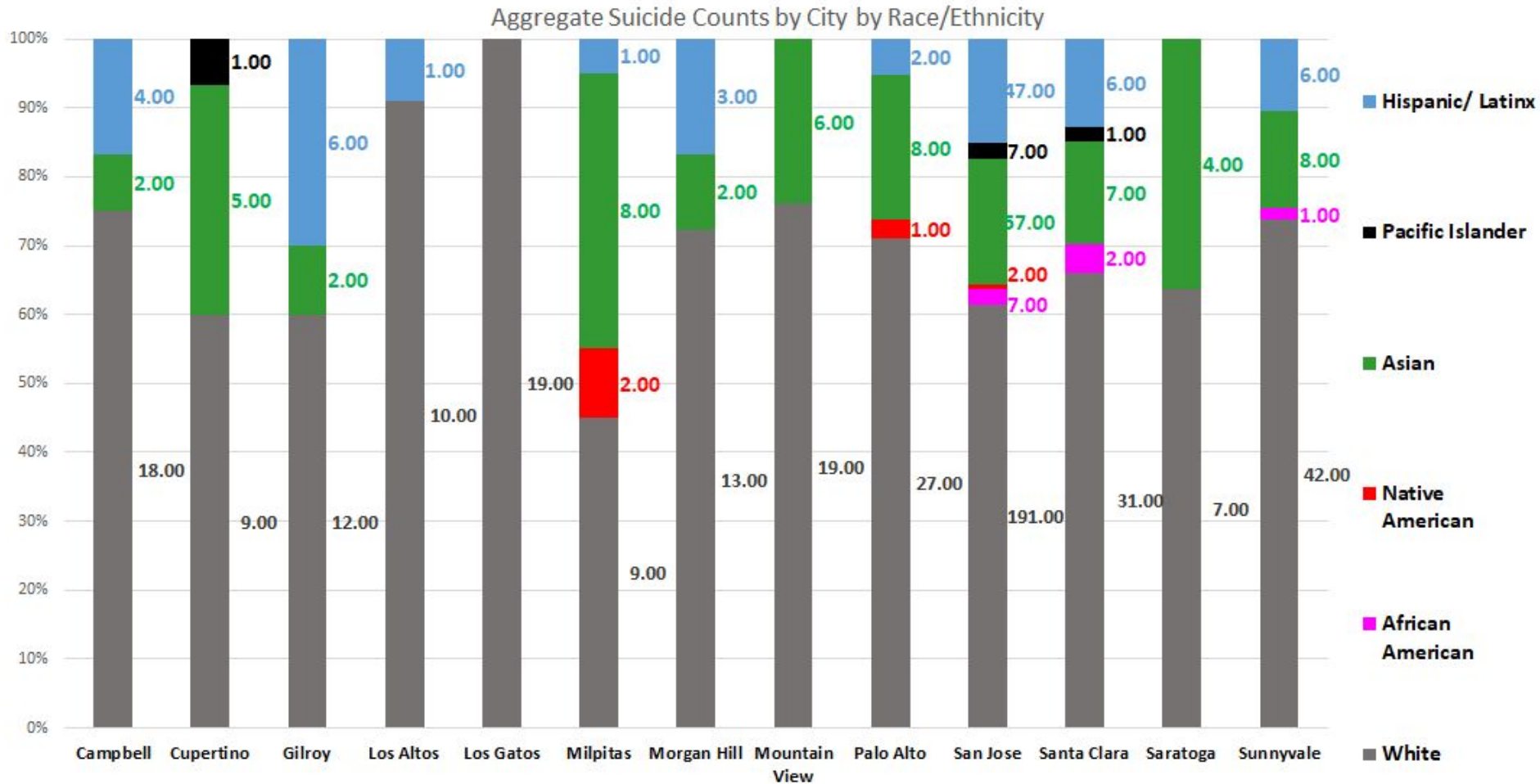
Aggregate Suicide Rates by City by Race/Ethnicity



Source: U.S. Census Bureau, 2012-2016 American Community Survey 5-Year Estimates
 Source: U.S. Census Bureau, 2011-2015 American Community Survey 5-Year Estimates
 Source: U.S. Census Bureau, 2010-2014 American Community Survey 5-Year Estimates
 Source: U.S. Census Bureau, 2009-2013 5-Year American Community Survey
 Source: U.S. Census Bureau, 2008-2012 American Community Survey

City of Residence by Race/Ethnicity Counts

Aggregate Counts of Suicide 2012-2016



Source: U.S. Census Bureau, 2012-2016 American Community Survey 5-Year Estimates
 Source: U.S. Census Bureau, 2011-2015 American Community Survey 5-Year Estimates
 Source: U.S. Census Bureau, 2010-2014 American Community Survey 5-Year Estimates
 Source: U.S. Census Bureau, 2009-2013 5-Year American Community Survey
 Source: U.S. Census Bureau, 2008-2012 American Community Survey

City of Residence by Age Group (1)

		15 to 24	25 to 34	35 to 44	45 to 54	55 to 64	65 to 74	75 to 84	85+
Campbell									
	2012	0.00	0.00	32.15	0.00	24.84	0.00	0.00	0.00
	2013	62.85	0.00	0.00	15.30	48.34	0.00	65.49	128.70
	2014	41.60	13.92	0.00	31.14	0.00	48.03	0.00	0.00
	2015	0.00	0.00	14.96	16.06	39.80	0.00	0.00	0.00
	2016	0.00	14.15	0.00	0.00	38.53	0.00	0.00	0.00
Cupertino									
	2012	0.00	0.00	0.00	9.54	16.54	27.08	84.50	0.00
	2013	0.00	0.00	9.30	0.00	16.53	26.55	0.00	0.00
	2014	0.00	0.00	0.00	9.43	31.93	0.00	0.00	0.00
	2015	16.64	0.00	0.00	18.75	0.00	0.00	0.00	0.00
	2016	0.00	0.00	9.30	0.00	0.00	0.00	0.00	0.00
Gilroy									
	2012	0.00	14.70	0.00	15.14	20.70	0.00	0.00	0.00
	2013	28.40	14.38	13.80	0.00	40.11	39.03	0.00	0.00
	2014	0.00	0.00	0.00	14.31	37.54	0.00	0.00	0.00
	2015	12.88	0.00	26.13	43.72	0.00	0.00	0.00	0.00
	2016	0.00	0.00	0.00	0.00	17.66	0.00	0.00	0.00
Los Altos									
	2012	46.77	0.00	24.02	18.76	24.24	0.00	0.00	0.00
	2013	0.00	0.00	0.00	18.67	0.00	34.97	0.00	0.00
	2014	0.00	0.00	24.79	0.00	0.00	0.00	0.00	0.00
	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	2016	40.83	0.00	0.00	0.00	0.00	34.75	97.94	0.00
Los Gatos									
	2012	43.61	0.00	0.00	20.57	27.40	0.00	0.00	0.00
	2013	0.00	38.27	0.00	0.00	0.00	34.07	48.95	133.51
	2014	0.00	0.00	0.00	0.00	0.00	33.04	93.72	136.43
	2015	0.00	0.00	24.71	36.90	22.11	0.00	49.75	0.00
	2016	36.97	0.00	49.76	0.00	0.00	0.00	0.00	0.00



Lowest to Highest

* These heat maps only show patterns of change of suicide rates of each city, independent of the other cities. The minimum and maximum values of each set of city data are different.

There were no decedents from 2012-2016 who were younger than 15 years old.

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 Source: U.S. Census Bureau, 2008-2012 American Community Survey

City of Residence by Age Group (2)

Milpitas													
	2012	2013	2014	2015	2016	2012	2013	2014	2015	2016			
	12.76	12.22	12.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
	0.00	9.42	0.00	8.67	0.00	19.20	11.82	46.01	41.77	0.00			
	0.00	0.00	0.00	8.89	0.00	9.41	11.45	20.93	0.00	0.00			
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Morgan Hill													
	2012	2013	2014	2015	2016	15 to 24	25 to 34	35 to 44	45 to 54	55 to 64	65 to 74	75 to 84	85+
	0.00	0.00	0.00	17.91	0.00	0.00	23.54	17.15	31.13	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	22.77	0.00	15.30	0.00	0.00	91.24	232.56
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.43	21.37	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	22.90	16.67	15.61	38.50	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.07	31.41	0.00	0.00
Mountain View													
	2012	2013	2014	2015	2016	15 to 24	25 to 34	35 to 44	45 to 54	55 to 64	65 to 74	75 to 84	85+
	13.31	0.00	13.49	0.00	0.00	0.00	0.00	0.00	9.99	0.00	0.00	0.00	79.68
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.45	10.00	12.89	45.34	0.00	0.00
	13.49	6.38	0.00	6.02	7.91	0.00	6.38	7.48	9.37	52.23	21.31	0.00	162.60
	0.00	6.02	7.91	0.00	0.00	0.00	6.02	7.91	9.13	0.00	0.00	0.00	0.00
	0.00	5.73	7.96	0.00	0.00	0.00	5.73	7.96	0.00	12.27	0.00	0.00	0.00
Palo Alto													
	2012	2013	2014	2015	2016	15 to 24	25 to 34	35 to 44	45 to 54	55 to 64	65 to 74	75 to 84	85+
	16.52	31.78	60.60	43.04	15.17	0.00	0.00	10.96	10.01	39.38	0.00	29.24	49.38
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.20	19.72	12.76	17.80	59.61	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.41	0.00	48.19
	0.00	12.09	0.00	0.00	0.00	0.00	12.09	0.00	9.87	40.03	34.24	0.00	0.00
	0.00	0.00	10.28	9.76	13.21	0.00	0.00	10.28	9.76	13.21	0.00	26.53	0.00



Lowest to Highest

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There were no decedents from 2012-2016 who were younger than 15 years old.

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 Source: U.S. Census Bureau, 2011-2015 American Community Survey 5-Year Estimates
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City of Residence by Age Group (3)

		Under 5	5 to 9	10 to 14	15 to 24	25 to 34	35 to 44	45 to 54	55 to 64	65 to 74	75 to 84	85+
San Jose	2012	0.00	0.00	0.00	5.49	5.42	8.02	7.34	9.29	14.75	12.77	8.11
	2013	0.00	0.00	0.00	7.79	8.77	7.95	8.65	10.85	1.75	12.44	15.35
	2014	0.00	0.00	0.00	7.76	5.34	5.24	15.52	12.32	8.22	17.95	7.46
	2015	0.00	0.00	0.00	3.10	11.11	5.26	8.37	10.89	9.39	11.51	21.70
	2016	0.00	0.00	0.00	7.68	5.09	4.66	4.89	6.16	7.56	11.48	0.00
Santa Clara	2012	0.00	0.00	0.00	6.39	14.03	19.58	13.43	9.83	0.00	0.00	0.00
	2013	0.00	0.00	0.00	0.00	4.70	0.00	6.57	38.52	17.98	0.00	0.00
	2014	0.00	0.00	0.00	6.08	13.49	19.97	13.18	18.73	16.38	0.00	54.61
	2015	0.00	0.00	0.00	6.10	0.00	9.85	6.63	17.84	0.00	27.31	51.65
	2016	0.00	0.00	0.00	0.00	8.29	0.00	6.55	27.02	28.61	0.00	46.51
Saratoga	2012	0.00	0.00	0.00	0.00	0.00	0.00	33.20	0.00	33.56	0.00	0.00
	2013	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.30	32.48	0.00	0.00
	2014	0.00	0.00	0.00	0.00	0.00	0.00	0.00	42.19	0.00	0.00	0.00
	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.23	0.00	45.52	0.00
	2016	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	42.37	92.51
Sunnyvale	2012	0.00	0.00	0.00	28.39	3.50	8.74	14.97	30.13	11.93	40.59	0.00
	2013	0.00	0.00	0.00	0.00	10.24	4.46	15.24	21.43	11.68	18.99	43.67
	2014	0.00	0.00	0.00	0.00	3.38	12.91	15.32	0.00	11.61	18.74	41.93
	2015	0.00	0.00	0.00	14.58	0.00	4.14	5.16	13.64	11.01	36.00	42.50
	2016	0.00	0.00	0.00	0.00	9.65	4.02	0.00	6.94	0.00	18.05	39.46



Lowest to Highest

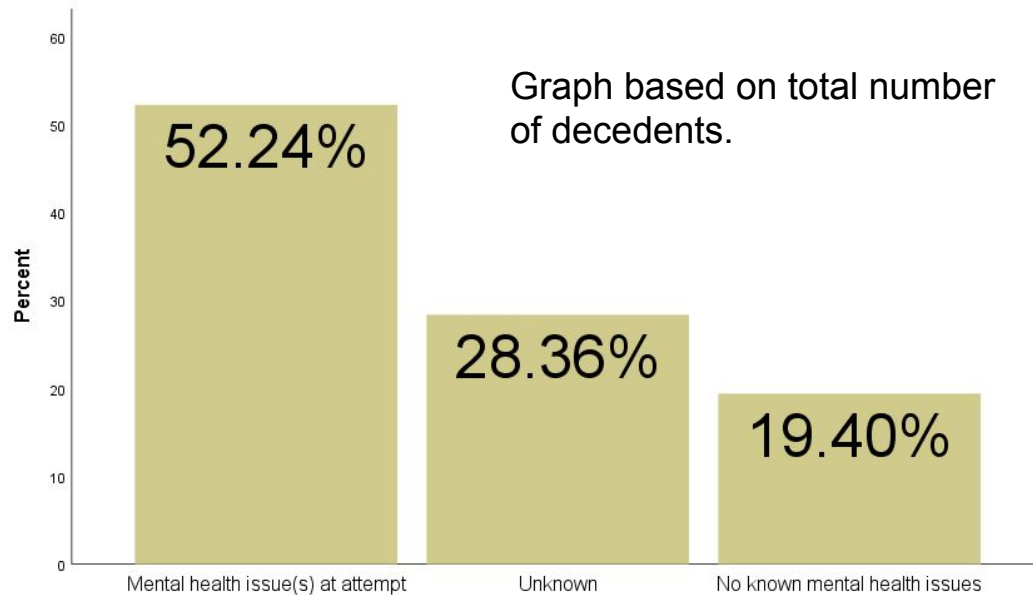
* These heat maps only show patterns of change of suicide rates of each city, independent of the other cities. The minimum and maximum values of each set of city data are different.

There were no decedents from 2012-2016 who were younger than 15 years old.

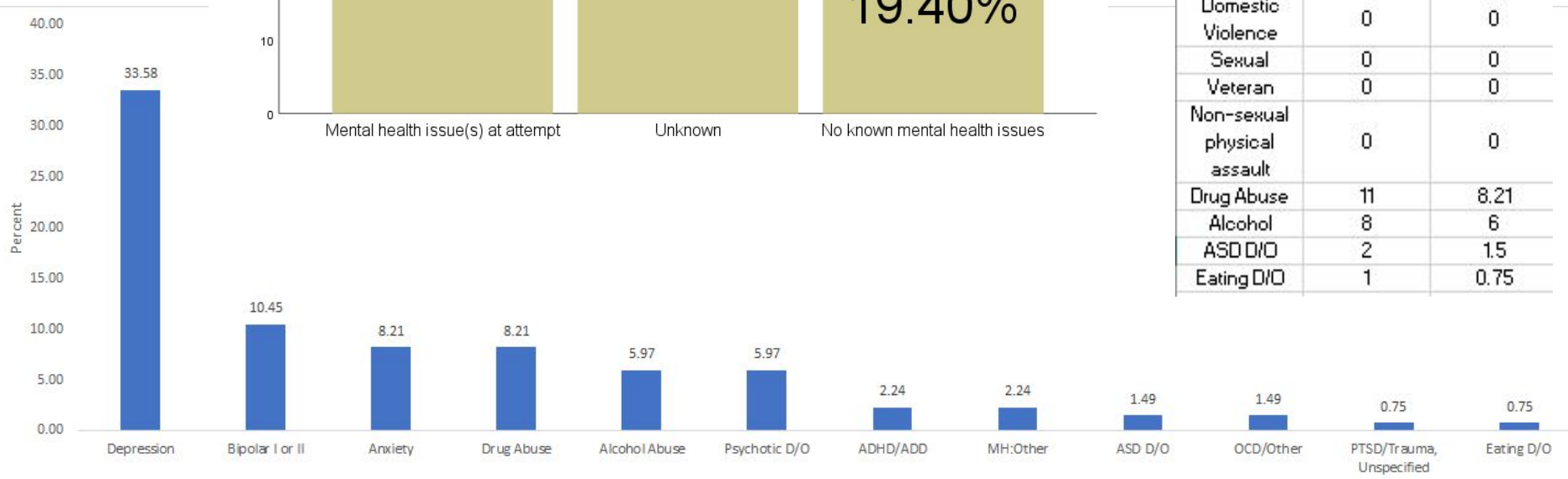
Source: U.S. Census Bureau, 2012-2016 American Community Survey 5-Year Estimates
 Source: U.S. Census Bureau, 2011-2015 American Community Survey 5-Year Estimates
 Source: U.S. Census Bureau, 2010-2014 American Community Survey 5-Year Estimates
 Source: U.S. Census Bureau, 2009-2013 5-Year American Community Survey
 Source: U.S. Census Bureau, 2008-2012 American Community Survey

Analysis by Health Status & Treatment

Mental Health Issues (2016 data)

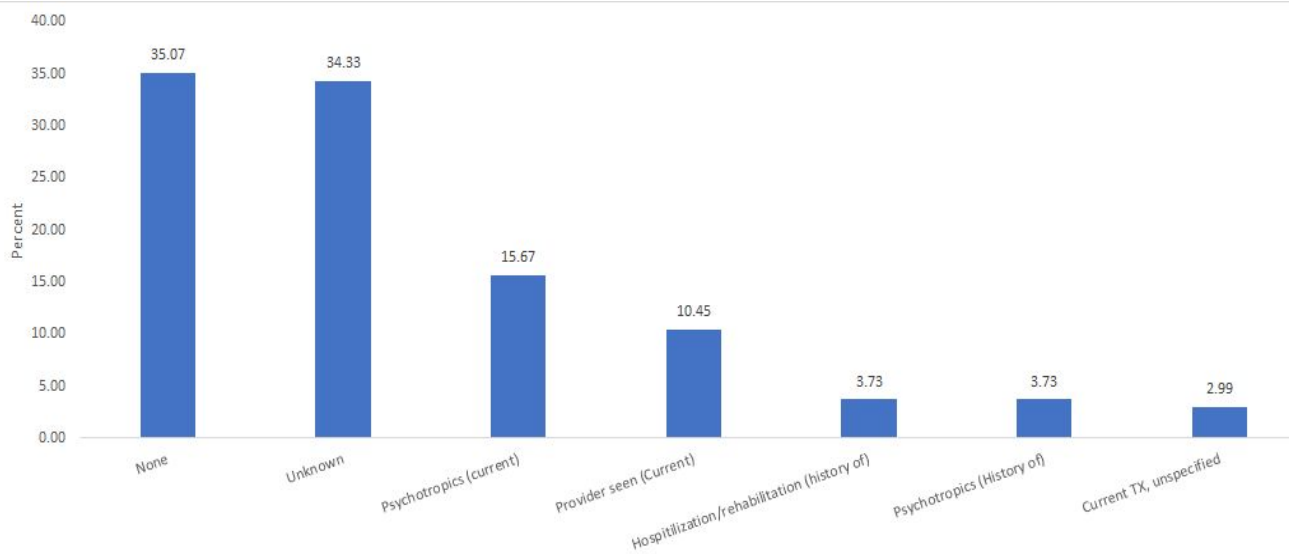
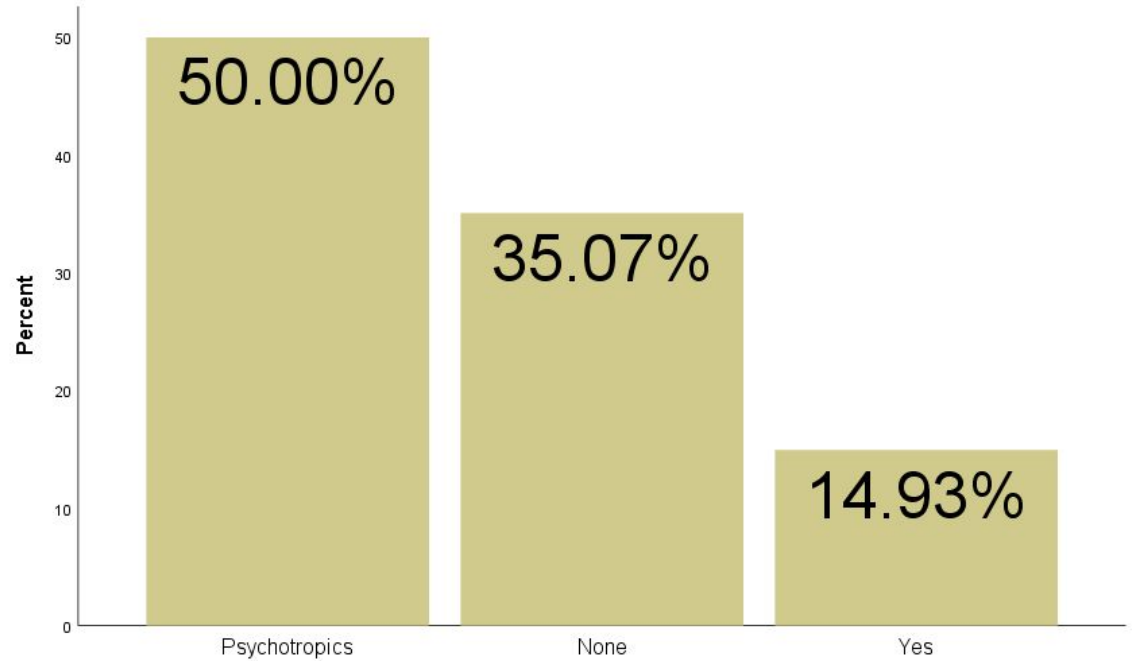


	Frequency	Percentage
Depression	45	33.58
Anxiety	11	8.2
Bipolar I or II	14	10.45
OCD/Other	2	1.5
Psychotic	8	6
ADHD/ADD	3	2.24
Parent-child relationship problem	0	0
Personality D/O	0	0
MH:Other	3	2.24
No diagnosis	29	21.64
Unknown	33	24.63
PTSD/Trauma, Unspecified	1	0.75
Domestic Violence	0	0
Sexual	0	0
Veteran	0	0
Non-sexual physical assault	0	0
Drug Abuse	11	8.21
Alcohol	8	6
ASD D/O	2	1.5
Eating D/O	1	0.75



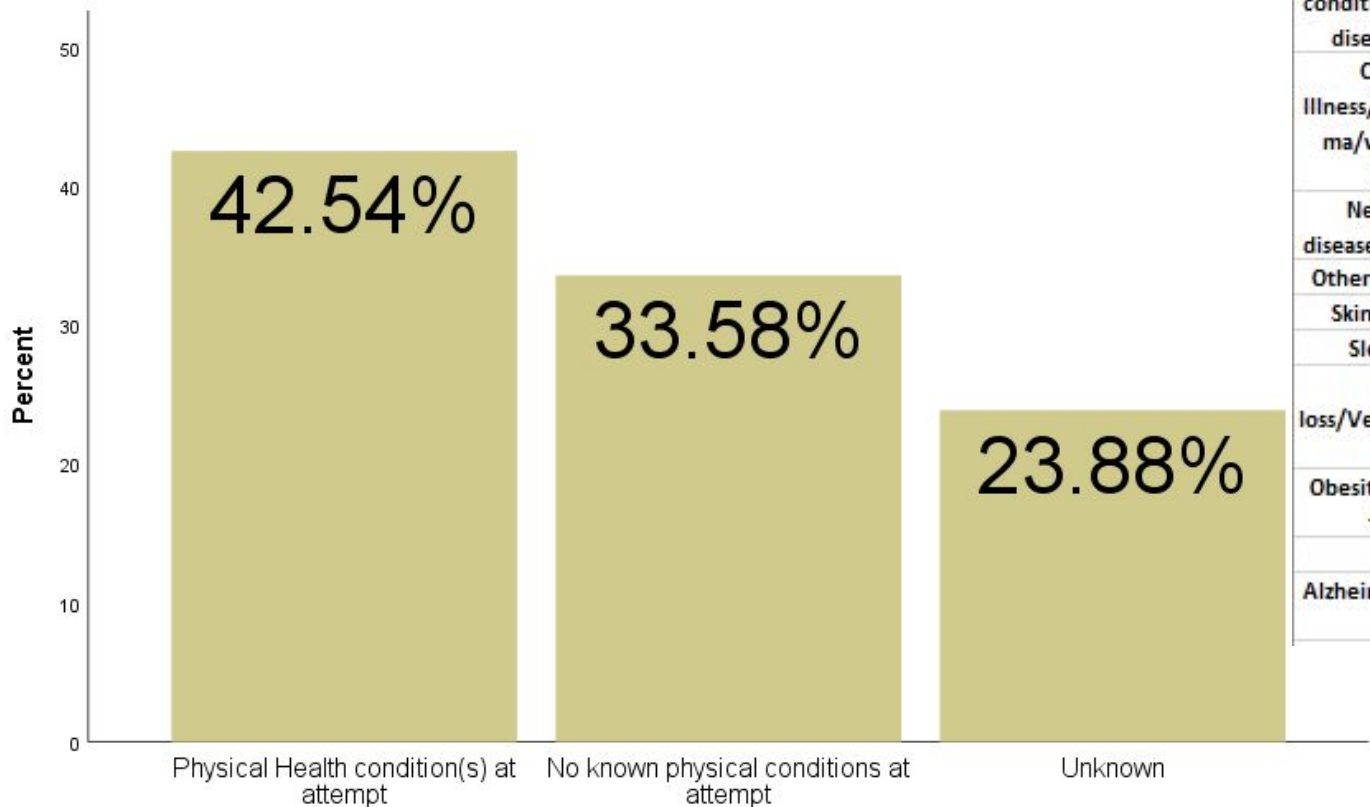
Each diagnosis is counted individually.

Mental Health Treatment (2016 data)



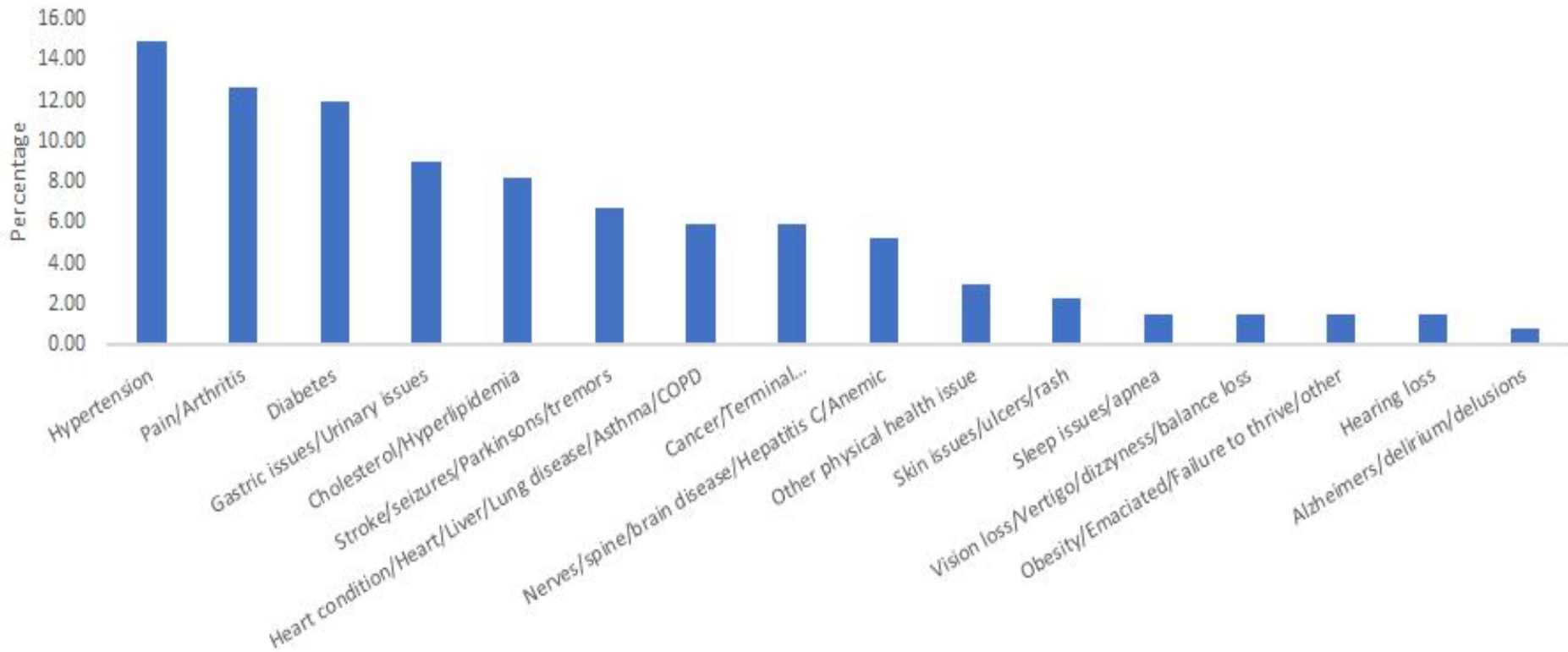
	Frequency	Percentage
Current TX	4	2.99
History of TX	0	0
Psychotropics (c)	21	15.67
Psychotropics (h)	5	3.73
Provider seen (c)	14	10.45
Provider seen (h)	0	0
Hospitalization/rehabilitation (c)	0	0
Hospitalization/rehabilitation (h)	5	3.73
Case Management (c)	0	0
Case Management (h)	0	0
Other	0	0
None	47	35.07
Unknown	46	34.33

Physical Health Issues (2016 data)



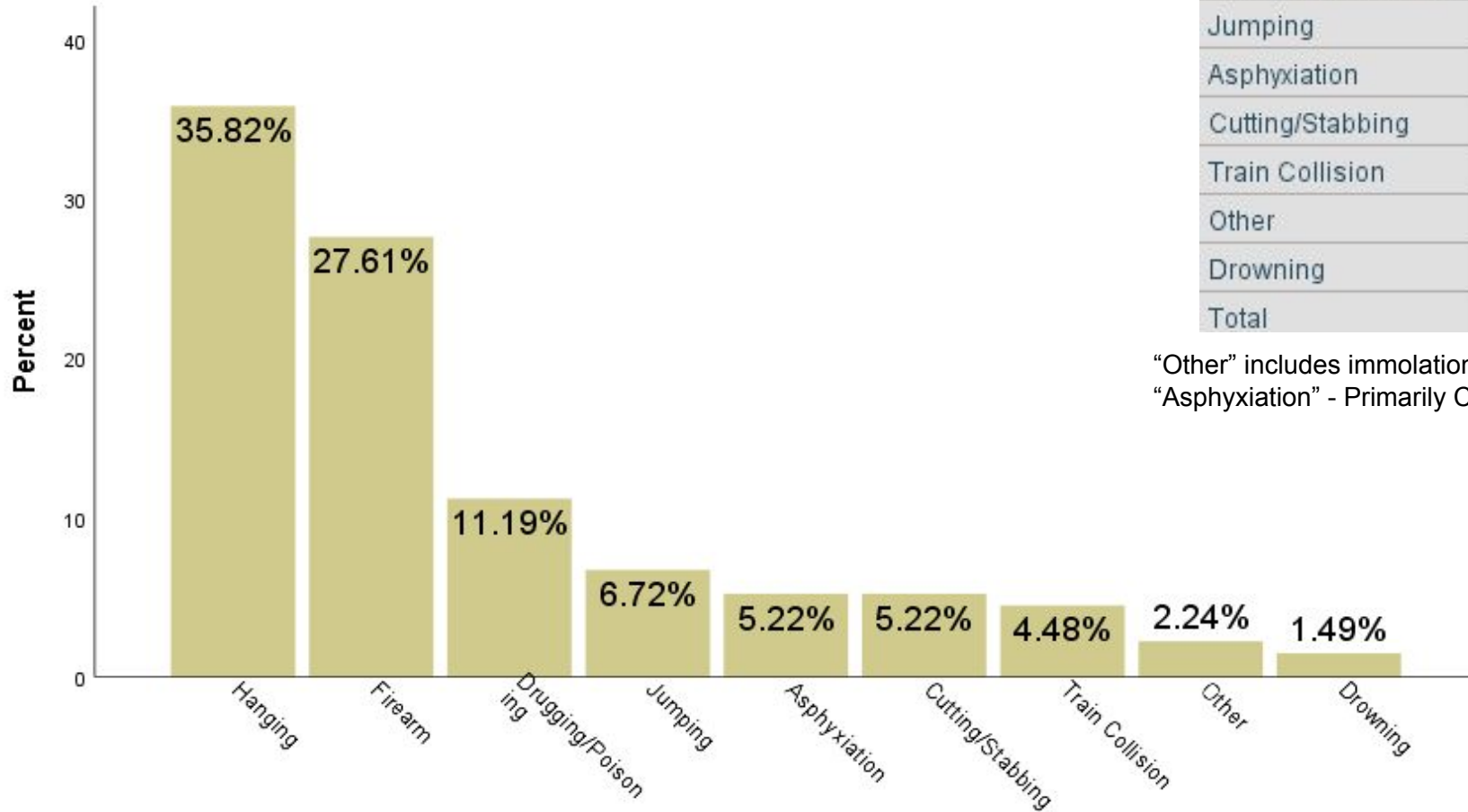
	Frequency	Percentage
Hypertension	20	14.93
Pain/Arthritis	17	12.69
Diabetes	16	11.94
Gastric issues/Urinary issues	12	8.96
Cholesterol/Hyperlipidemia	11	8.21
Stroke/seizures/Parkinsons/tremors	9	6.72
Heart condition/Heart/Liver/Lung disease/Asthma/COPD	8	5.97
Cancer/Terminal Illness/HIV/AIDS/Tumor/Coma/vegetative state/life support/other	8	5.97
Nerves/spine/brain disease/Hepatitis C/Anemic	7	5.22
Other physical health issue	4	2.99
Skin issues/ulcers/rash	3	2.24
Sleep issues/apnea	2	1.49
Vision loss/Vertigo/dizziness/balance loss	2	1.49
Obesity/Emaciated/Failure to thrive/other	2	1.49
Hearing loss	2	1.49
Alzheimers/delirium/delusions	1	0.75

Physical Health Issues



Analysis by Suicide Method

Method (2016 data)

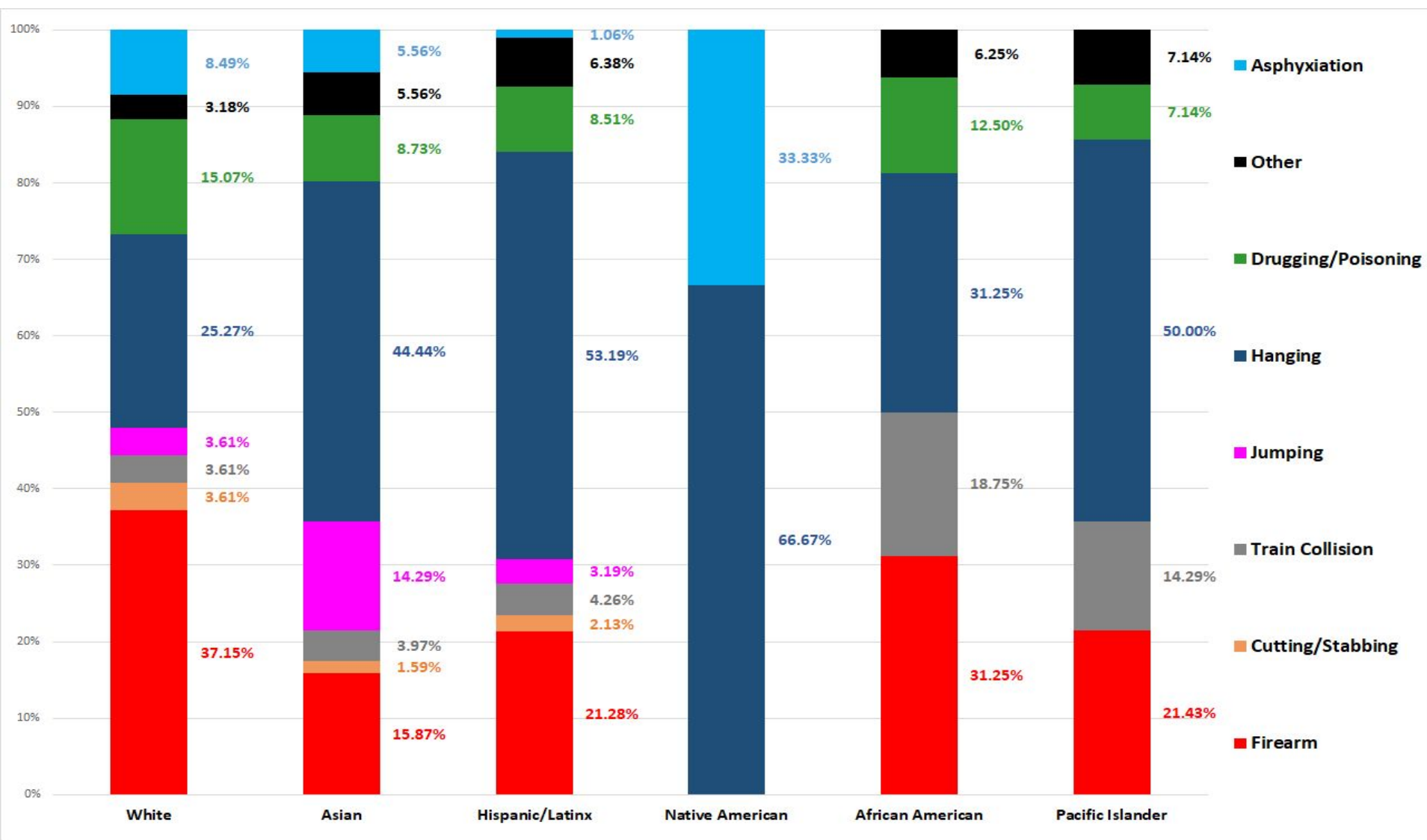


	Frequency
Hanging	48
Firearm	37
Drugging/Poisoning	15
Jumping	9
Asphyxiation	7
Cutting/Stabbing	7
Train Collision	6
Other	3
Drowning	2
Total	134

“Other” includes immolation and drowning.
 “Asphyxiation” - Primarily CO2 poisoning.

Method by Race/Ethnicity (5-Year Aggregate)

Percentages derived from total of each racial/ethnic group.



Total: **471**

126

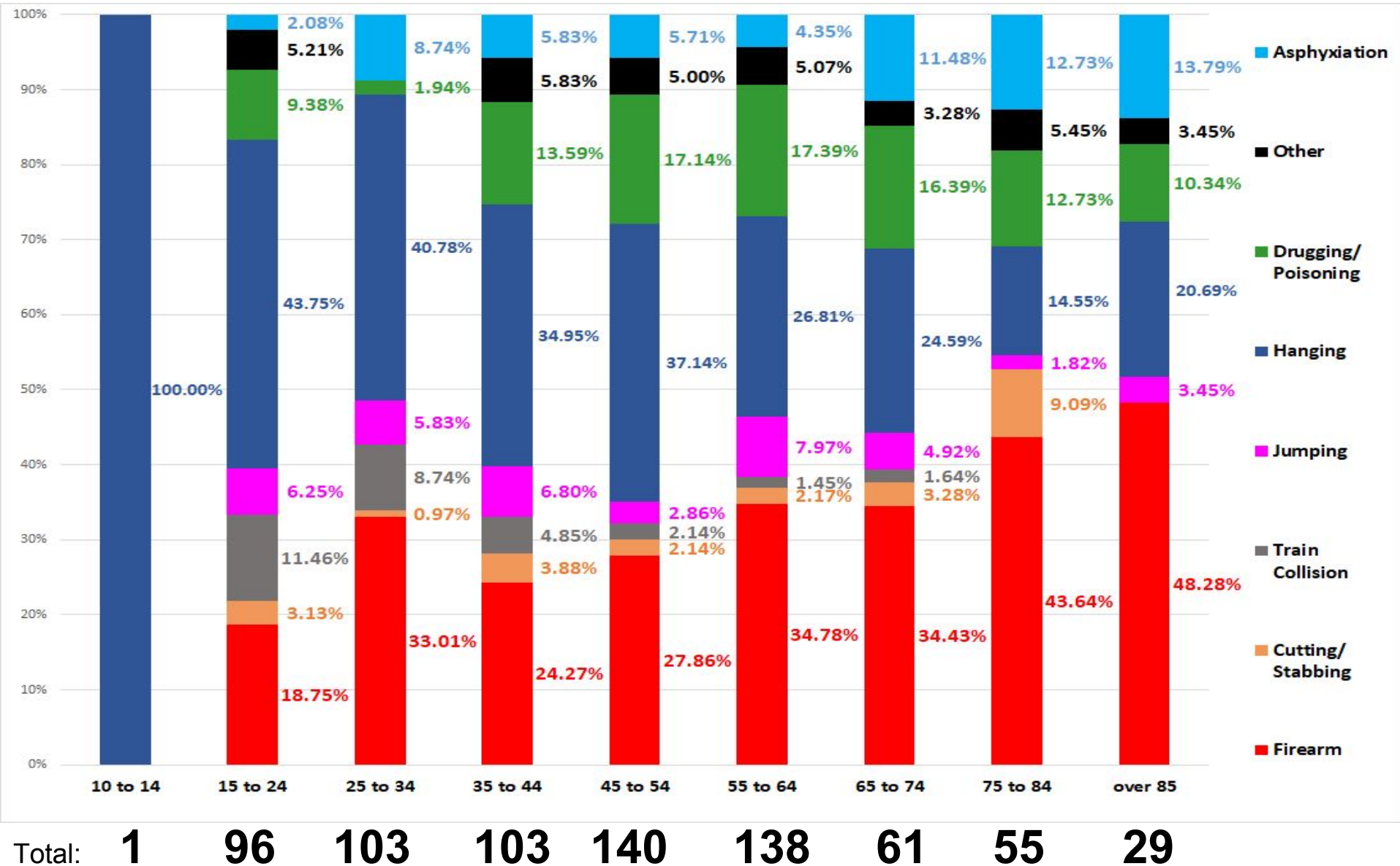
94

3

16

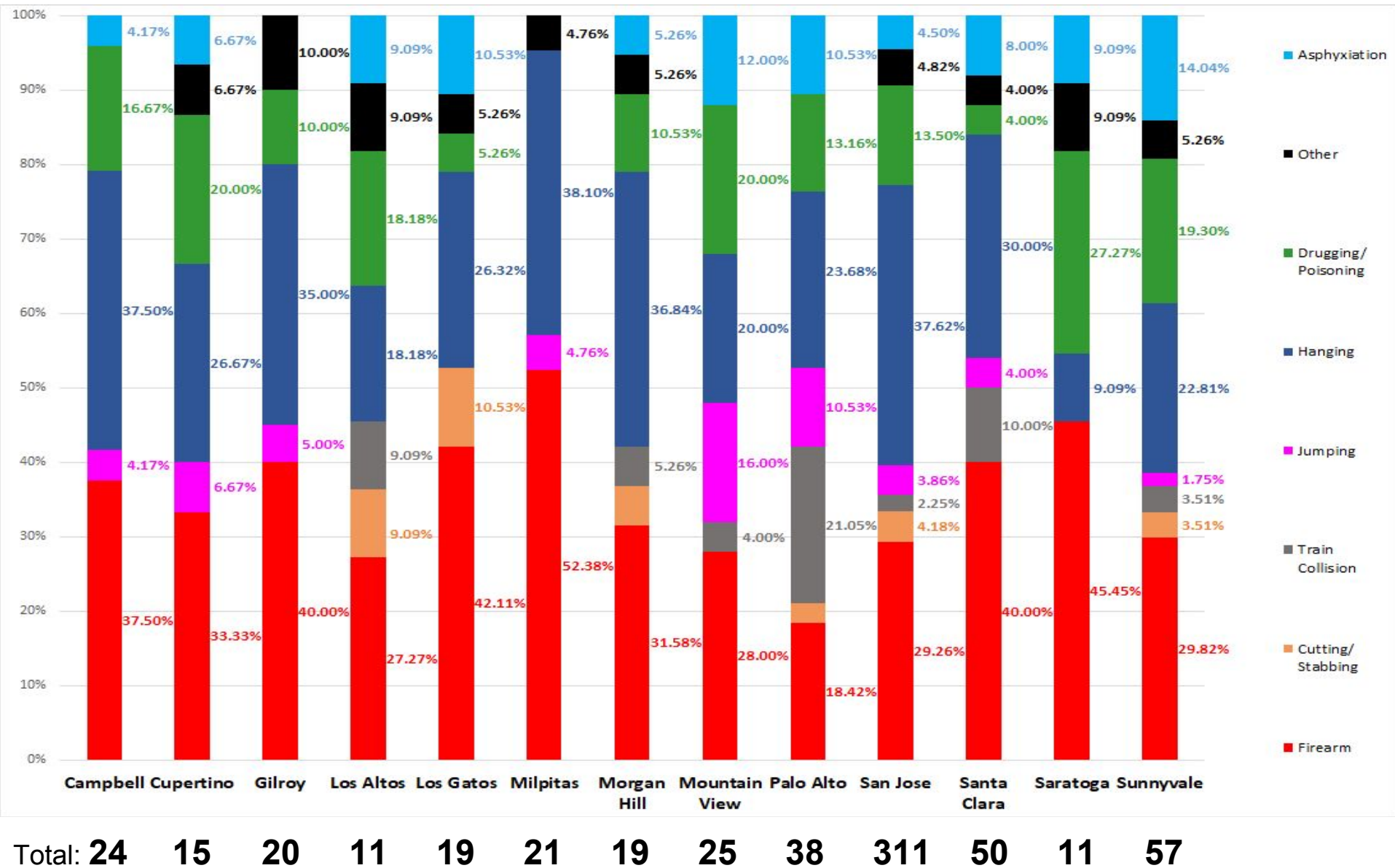
14

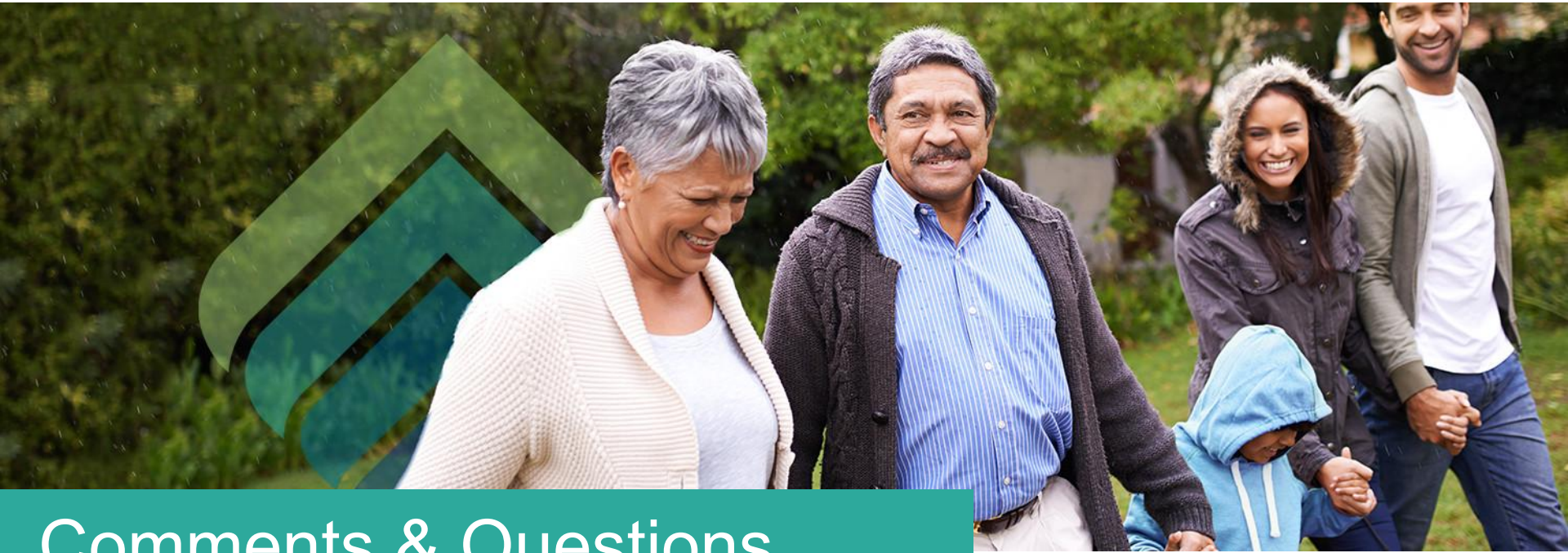
Method by Age Group (5-year Aggregate)



City of Residence by Method (5-Year Aggregate)

Total percentage derived from city group totals.





Comments & Questions

Recommendations from Data Workgroup

Next cities to approach with suicide plan: Campbell, Santa Clara
Focus on Pacific Islanders -- mostly youth, in certain cities, like

Pacific Islander high rates are accounted for in Cupertino, Milpitas, San Jose, and Santa Clara

Discuss what to communicate with the Coroner in terms of how they interview

Hanging restriction, particularly for ethnic minorities

- Look for approaches, for intervention workgroup

- Communicate with family and friends -- they're more crucial