

# **MATERNAL MORTALITY**

**TITLE V PERINATAL INDICATORS - 2019**

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**INDICATOR:** Maternal Mortality Rate

**DEFINITION:** Death from obstetric causes <=42 days postpartum, per 100,000 live births

**NUMERATOR:** The number of maternal deaths with the underlying causes of the death as identified by ICD-9 codes 630-676, or by ICD-10 codes A34, A00-B99, by place of residence, in a calendar year

**DENOMINATOR:** The total number of live births, by place of residence, in a calendar year

**HEALTHY PEOPLE 2020 OBJECTIVE:**

Reduce maternal deaths to no more than 11.4 per 100,000 live births.  
(Baseline: 12.7 per 100,000 live births in 2007) (Objective MICH-5)

**RISK FACTORS:**

Race/ethnicity; maternal age over thirty; high parity; late entry into prenatal care; lack of comprehensive prenatal care; tobacco use during pregnancy; alcohol/substance abuse during pregnancy

Year	Los Angeles County			
	Maternal Mortality		95% Confidence Interval	
	Deaths	Rate	Lower	Upper
2010	19	14.3	7.9	20.7
2011	28	21.5	13.5	29.4
2012	23	17.5	10.3	24.6
2013	23	17.9	10.6	25.2
2014	22	16.9	9.8	24.0
2015	17	13.7	7.2	20.1
2016	22	17.9	10.4	25.4
2017	23	19.7	11.6	27.7
2018	18	16.4	8.8	23.9
2019	23	21.5	12.7	30.2

Denominator: Live Births	
Year	LA County
2010	133,160
2011	130,313
2012	131,697
2013	128,523
2014	130,150
2015	124,507
2016	122,941
2017	116,850
2018	109,893
2019	107,202

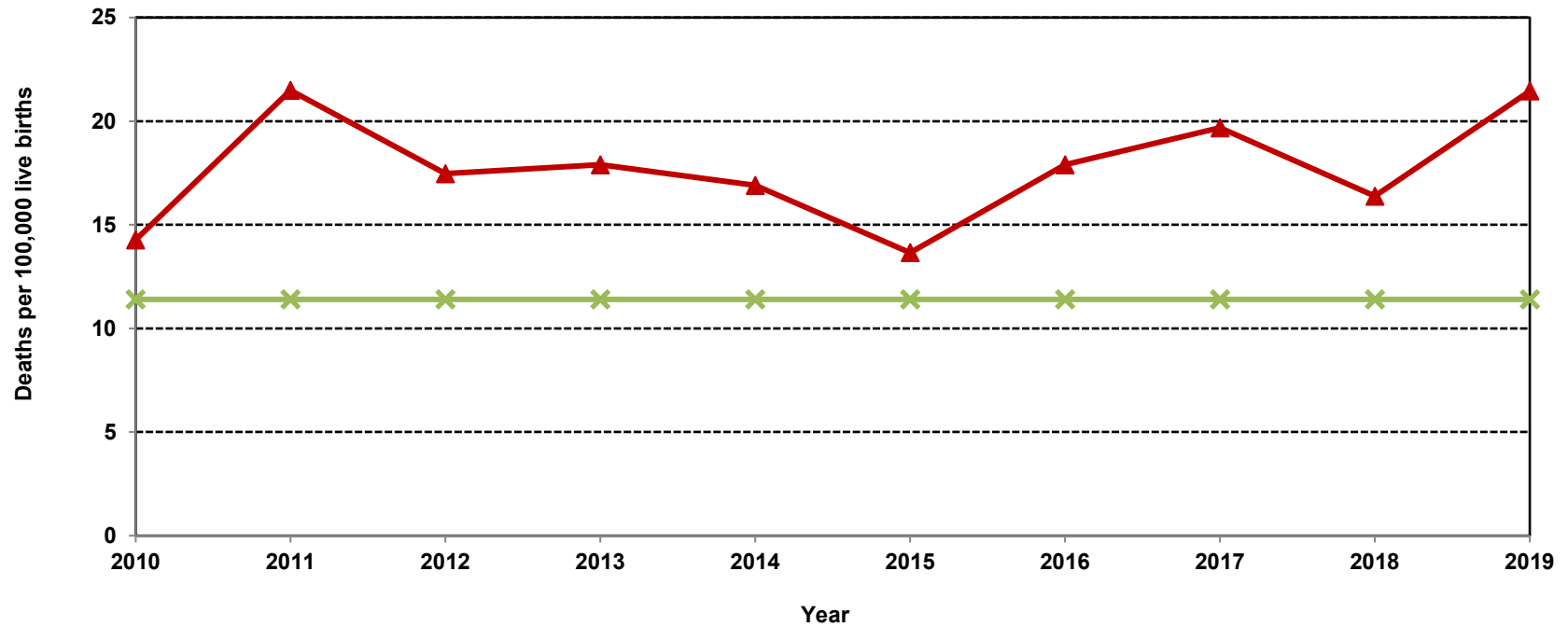
Note: "Maternal Mortality Rate" is defined as the number of maternal deaths due to pregnancy, childbirth and the puerperium per 100,000 live births as identified by ICD-9 codes 630-676 or ICD-10 codes A34, A00-B99 .

Sources: California Integrated Vital Records System, 2018-2019

California Department of Public Health, Birth and Death Statistical Files, 2010-2017

### Maternal Mortality Rates (per 100,000 live births) Los Angeles County, 2010-2019

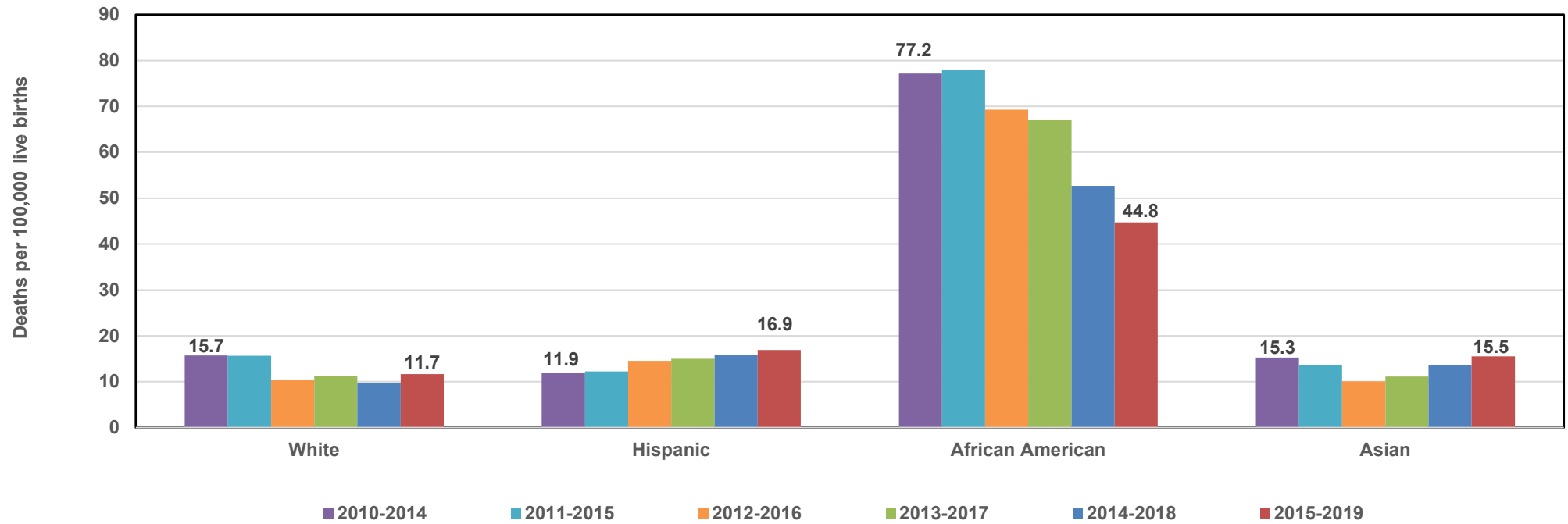
Healthy People 2020      Los Angeles County



Note: "Maternal Mortality Rate" is defined as the number of maternal deaths due to pregnancy, childbirth and the puerperium per 100,000 live births as identified by ICD-9 codes 630-676 or ICD-10 codes A34, A00-B99 .

Sources: California Integrated Vital Records System, 2018-2019  
California Department of Public Health, Birth and Death Statistical Files, 2010-2017

**Maternal Mortality Rates by Race/Ethnicity  
Los Angeles County  
5-Year Moving Averages, 2010-2019**



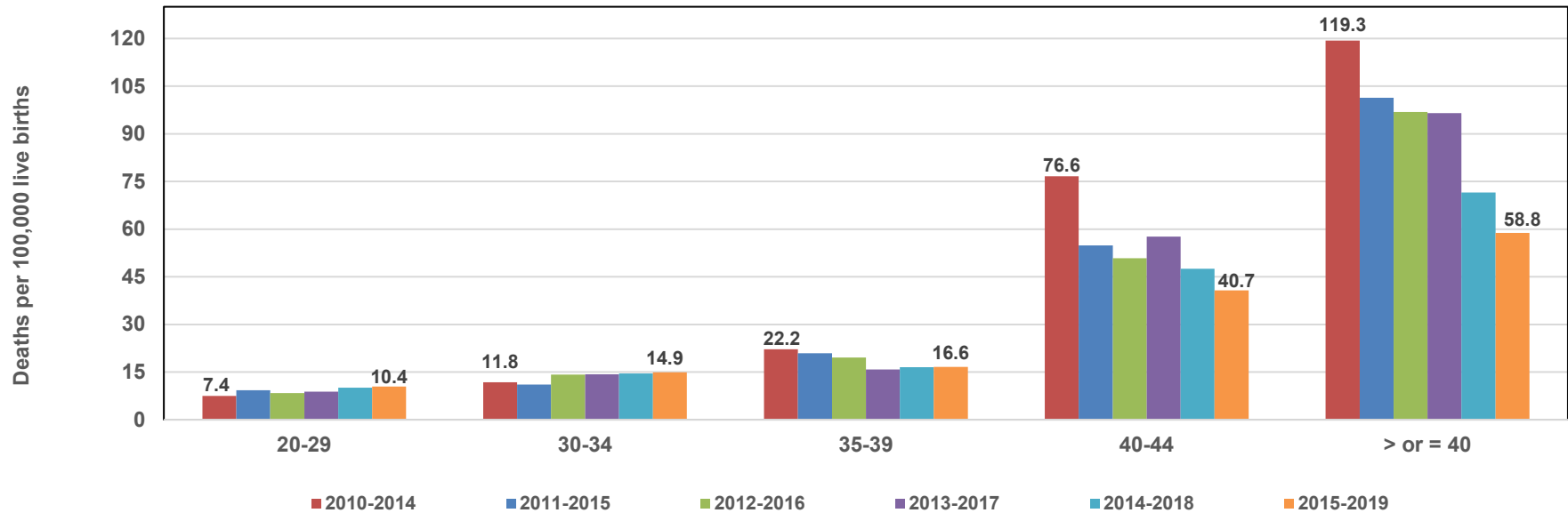
Years	White			Hispanic			African American			Asian		
	Total Deaths	Total Live Births	MM Rate	Total Deaths	Total Live Births	MM Rate	Total Deaths	Total Live Births	MM Rate	Total Deaths	Total Live Births	MM Rate
<b>2010-2014</b>	18	114,523	15.7	45	379,475	11.9	37	47,943	77.2	14	91,589	15.3
<b>2011-2015</b>	18	114,805	15.7	45	367,827	12.2	36	46,138	78.0	13	95,533	13.6
<b>2012-2016</b>	12	114,929	10.4	52	357,500	14.5	31	44,759	69.3	10	99,406	10.1
<b>2013-2017</b>	13	114,491	11.4	52	345,692	15.0	29	43,309	67.0	11	98,896	11.1
<b>2014-2018</b>	11	113,070	9.7	53	333,180	15.9	22	41,751	52.7	13	96,030	13.5
<b>2015-2019</b>	13	111,422	11.7	54	319,175	16.9	18	40,221	44.8	14	90,102	15.5

Note: "Maternal Mortality Rate" is defined as the number of maternal deaths due to pregnancy, childbirth and the puerperium per 100,000 live births as identified by ICD-9 codes 630-676 or ICD-10 codes A34, A00-B99 .

Sources: California Integrated Vital Records System, 2018-2019

California Department of Public Health, Birth and Death Statistical Files, 2010-2017

**Maternal Mortality Rates by Age Group  
Los Angeles County  
5-Year Moving Averages, 2010-2019**



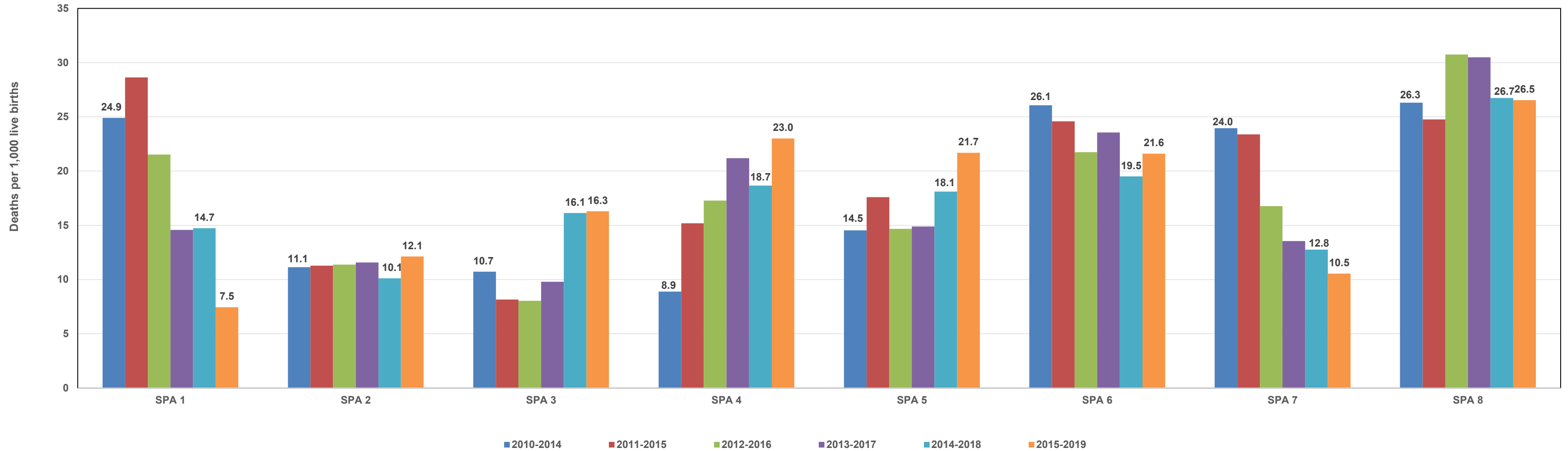
Years	<20 Yrs.			20-29 Yrs.			30-34 Yrs.			35-39 Yrs.			40-44 Yrs.			> or = 40 Yrs.		
	Total Deaths	Total Live Births	MM Rate	Total Deaths	Total Live Births	MM Rate	Total Deaths	Total Live Births	MM Rate	Total Deaths	Total Live Births	MM Rate	Total Deaths	Total Live Births	MM Rate	Total Deaths	Total Live Births	MM Rate
2010-2014	<5	46,192	N/C	25	336,039	7.4	21	178,096	11.8	24	108,145	22.2	22	28,715	76.6	37	31,011	119.3
2011-2015	<5	40,524	N/C	30	322,256	9.3	20	180,576	11.1	23	110,202	20.9	16	29,150	54.9	32	31,584	101.3
2012-2016	<5	35,457	N/C	26	309,943	8.4	26	182,765	14.2	22	112,605	19.5	15	29,487	50.9	31	31,994	96.9
2013-2017	<5	30,925	N/C	26	294,613	8.8	26	181,827	14.3	18	113,939	15.8	17	29,515	57.6	31	32,121	96.5
2014-2018	<5	26,918	N/C	28	277,794	10.1	26	178,882	14.5	19	115,087	16.5	14	29,489	47.5	23	32,165	71.5
2015-2019	<5	23,601	N/C	27	259,962	10.4	26	174,079	14.9	19	114,640	16.6	12	29,506	40.7	19	32,333	58.8

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Sources: California Integrated Vital Records System, 2018-2019

California Department of Public Health, Birth and Death Statistical Files, 2010-2017

**Maternal Mortality Rates by Service Planning Area (SPA)  
Los Angeles County  
5-Year Moving Average, 2010-2019**



Years	SPA 1			SPA 2			SPA 3			SPA 4			SPA 5			SPA 6			SPA 7			SPA 8		
	Total Deaths	Total Live Births	MM Rate	Total Deaths	Total Live Births	MM Rate	Total Deaths	Total Live Births	MM Rate	Total Deaths	Total Live Births	MM Rate	Total Deaths	Total Live Births	MM Rate	Total Deaths	Total Live Births	MM Rate	Total Deaths	Total Live Births	MM Rate	Total Deaths	Total Live Births	MM Rate
<b>2010-2014</b>	7	28,105	28.6	14	125,739.0	11.1	13	121,268	14.5	24	28,105	8.9	5	125,739	14.5	24	121,268	26.1	21	67,502	26.3	25	34,380	26.3
<b>2011-2015</b>	8	27,944	21.5	14	124,100.0	11.3	10	122,669	17.6	22	27,944	15.2	6	124,100	17.6	22	122,669	24.6	20	65,789	24.8	23	34,106	24.8
<b>2012-2016</b>	6	27,881	14.6	14	122,924.0	11.4	10	124,480	14.7	19	27,881	17.3	5	122,924	14.7	19	124,480	21.7	14	63,650	30.8	28	34,054	30.8
<b>2013-2017</b>	<5	27,426	N/C	14	120,831.0	11.6	12	122,404	14.9	20	27,426	21.2	5	120,831	14.9	20	122,404	23.6	11	61,322	30.5	27	33,572	30.5
<b>2014-2018</b>	<5	27,140	N/C	12	118,693.0	10.1	19	117,775	18.1	16	27,140	18.7	6	118,693	18.1	16	117,775	19.5	10	58,938	26.7	23	33,113	26.7
<b>2015-2019</b>	<5	26,839	N/C	14	115,449.0	12.1	18	110,434	21.7	17	26,839	23.0	7	115,449	21.7	17	110,434	21.6	8	56,503	26.5	22	32,272	26.5

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Sources: California Integrated Vital Records System, 2018-2019  
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