

Infant Mortality

TITLE V INDICATOR TEMPLATE

INDICATOR: Infant Mortality Rate

DEFINITION: The number of infant deaths occurring at less than 365 days of age per 1,000 live births

NUMERATOR: The number of infant deaths occurring at less than 365 days of age, 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 the infant mortality rate to no more than 6.0 per 1,000 live births.
(Baseline: 6.7 per 1,000 live births in 2006) (Objective MICH-1.3)

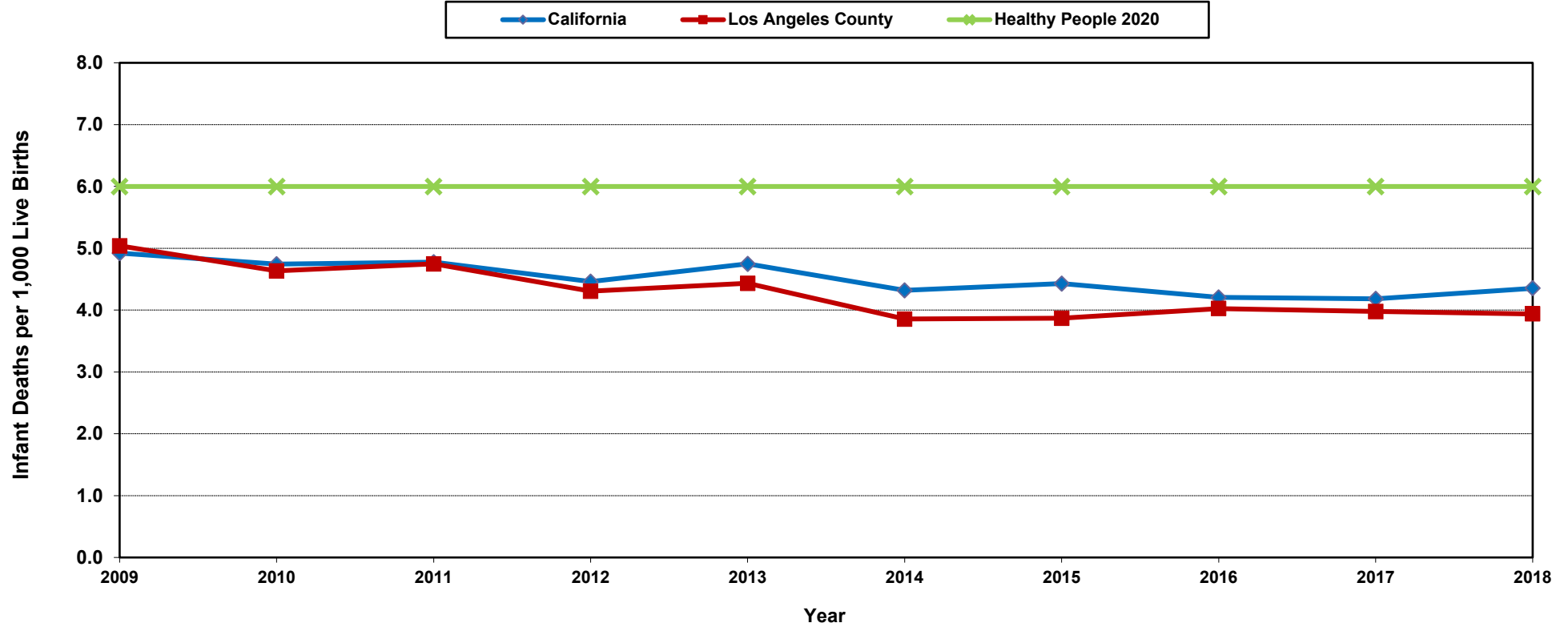
RISK FACTORS: Race/ethnicity; prematurity/disorders related to short gestation; low birth weight; congenital anomalies; young maternal age; low maternal education level; maternal tobacco use; maternal alcohol or substance use/abuse; poor maternal nutrition; inadequate prenatal care; unintended pregnancy; maternal psychosocial problems; maternal medical complications/chronic illness during pregnancy (including diabetes); pregnancy complications; short interpregnancy interval; injury (including domestic violence); infection; respiratory distress syndrome; family history of SIDS

Year	California				Los Angeles County			
	Infant Mortality		95% Confidence Interval		Infant Mortality		95% Confidence Interval	
	Deaths	Rate	Lower	Upper	Deaths	Rate	Lower	Upper
2009	2,593	4.9	4.7	5.1	704	5.0	4.7	5.4
2010	2,419	4.7	4.6	4.9	617	4.6	4.3	5.0
2011	2,397	4.8	4.6	5.0	619	4.8	4.4	5.1
2012	2,247	4.5	4.3	4.6	567	4.3	4.0	4.7
2013	2,348	4.7	4.6	4.9	570	4.4	4.1	4.8
2014	2,173	4.3	4.1	4.5	502	3.9	3.5	4.2
2015	2,178	4.4	4.2	4.6	482	3.9	3.5	4.2
2016	2,057	4.2	4.0	4.4	495	4.0	3.7	4.4
2017	1,973	4.2	4.0	4.4	465	4.0	3.6	4.3
2018	1,981	4.4	4.2	4.5	433	3.9	3.6	4.3

Year	Denominator: Live Births	
	California	LA County
2009	526,774	139,679
2010	509,979	133,160
2011	502,023	130,313
2012	503,788	131,697
2013	494,392	128,526
2014	502,973	130,150
2015	491,748	124,507
2016	488,827	122,941
2017	471,658	116,850
2018	454,920	109,893

Sources: California Department of Public Health, Death Statistical Master File, 2009-2017
2018 birth and death records downloaded from the Vital Record Business Intelligence System (VRBIS) on 02/04/20

Infant Mortality Rate California vs. Los Angeles County, 2009-2018

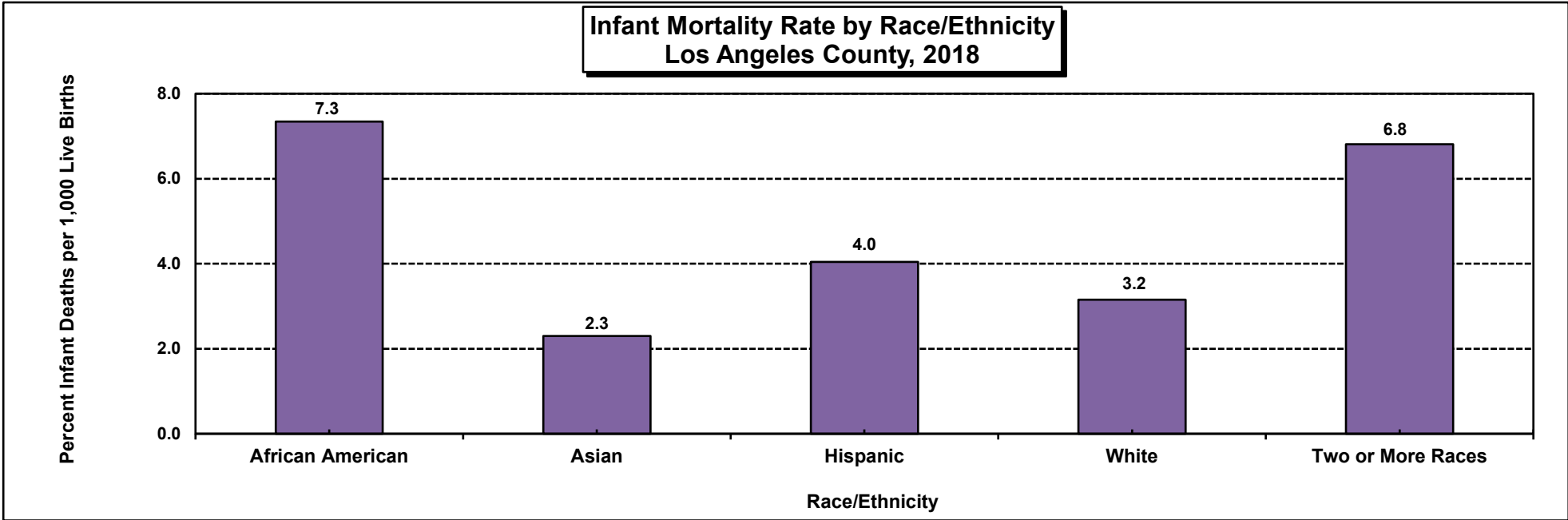


Year 2020 Objective: Reduce the infant mortality rate to no more than 6.0 per 1,000 live births.

Note: "Infant Mortality" rate is defined as the number of infant deaths occurring at less than 365 days of age per 1,000 live births

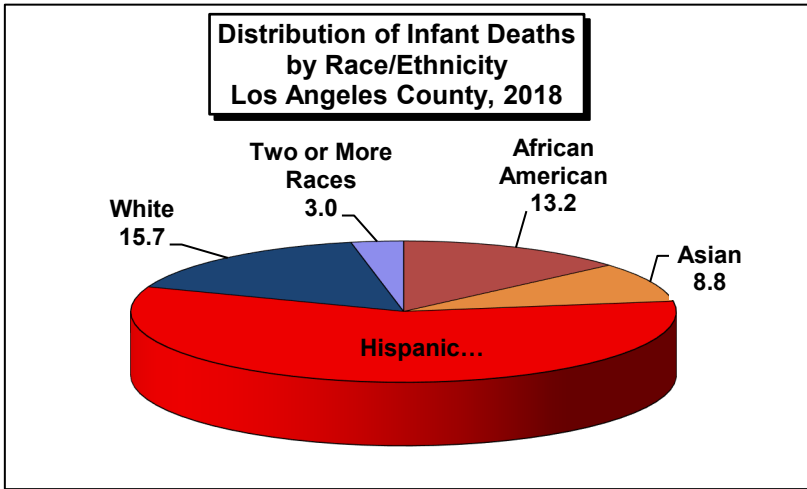
Sources: California Department of Public Health, Death Statistical Master File, 2009-2017

2018 birth and death records downloaded from the Vital Record Business Intelligence System (VRBIS) on 02/04/20



Los Angeles County, 2018				
Race/Ethnicity	Infant Mortality		95% Confidence Interval	
	Deaths	Rate	Lower	Upper
African American	57	7.3	5.4	9.2
Asian	38	2.3	1.6	3.0
Pacific Islander	<5	N/C	N/C	N/C
Hispanic	243	4.0	3.5	4.5
Native American	<5	N/C	N/C	N/C
White	68	3.2	2.4	3.9
Two or More Races	13	6.8	3.1	10.5
Other/Unknown	<5	N/C	N/C	N/C
Total	433	3.9	3.6	4.3

Total Live Births
7,761
16,532
258
60,133
124
21,581
1,908
1,596
109,893



Source: 2018 birth and death records downloaded from the Vital Record Business Intelligence System (VRBIS) on 02/04/20

Year 2020 Objective: Reduce the infant mortality rate to no more than 6.0 per 1,000 live births.

Notes: Numbers fewer than 5 are shown as "<5". Rates are not calculated (N/C) if number is fewer than five.

"Infant Mortality" rate is defined as infant deaths occurring less than 365 days per 1,000 live births.

Neonatal Mortality

TITLE V INDICATOR TEMPLATE

INDICATOR: Neonatal Mortality Rate

DEFINITION: The number of infant deaths occurring at less than 28 days of age per 1,000 live births

NUMERATOR: The number of infant deaths occurring at less than 28 days of age, 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 the neonatal mortality rate to no more than 4.1 per 1,000 live births.
(Baseline: 4.5 per 1,000 live births in 2006) (Objective MICH-1.4)

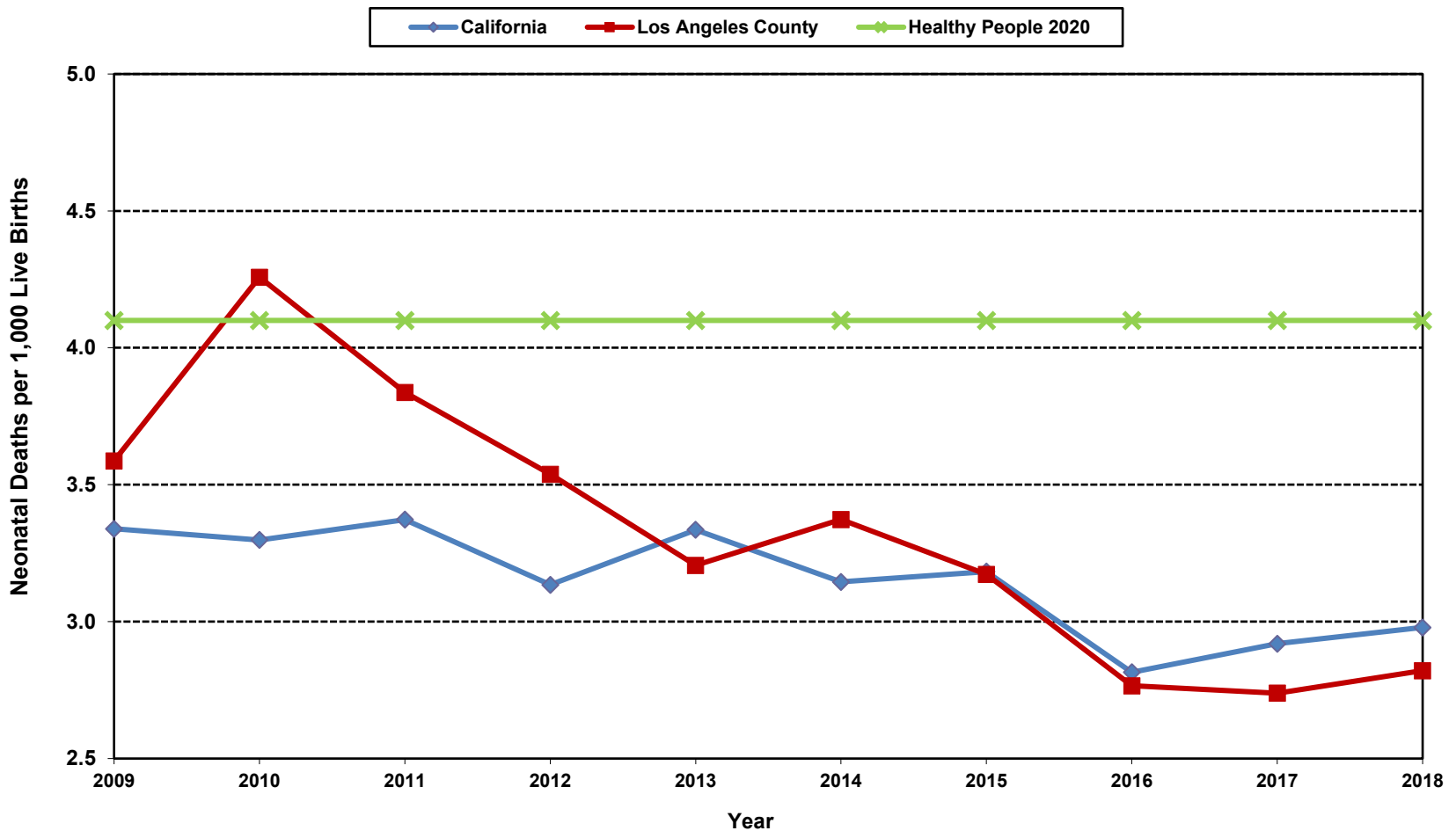
RISK FACTORS: Congenital anomalies; respiratory distress syndrome; short gestation; low birth weight; maternal complications; race/ethnicity (African American, Puerto Rican)

See also risk factors for infant mortality.

Year	California			Los Angeles County				Denominator: Live Births			
	Neonatal Mortality		95% Confidence Interval	Neonatal Mortality		95% Confidence Interval					
2009	1,759	3.3	3.2	3.5	501	3.6	3.3	3.9	2009	526,774	139,679
2010	1,682	3.3	3.1	3.5	567	4.3	3.9	4.6	2010	509,979	133,160
2011	1,693	3.4	3.2	3.5	500	3.8	3.5	4.2	2011	502,023	130,313
2012	1,579	3.1	3.0	3.3	466	3.5	3.2	3.9	2012	503,788	131,697
2013	1,649	3.3	3.2	3.5	412	3.2	2.9	3.5	2013	494,392	128,526
2014	1,582	3.1	3.0	3.3	439	3.4	3.1	3.7	2014	502,973	130,150
2015	1,565	3.2	3.0	3.3	395	3.2	2.9	3.5	2015	491,748	124,507
2016	1,376	2.8	2.7	3.0	340	2.8	2.5	3.1	2016	488,827	122,941
2017	1,377	2.9	2.8	3.1	320	2.7	2.4	3.0	2017	471,658	116,850
2018	1,355	3.0	2.8	3.1	310	2.8	2.5	3.1	2018	454,920	109,893

Sources: California Department of Public Health, Death Statistical Master File, 2009-2017
2018 birth and death records downloaded from the Vital Record Business Intelligence System (VRBIS) on 02/04/20

Neonatal Deaths per 1,000 Live Births California vs. Los Angeles County, 2009-2018

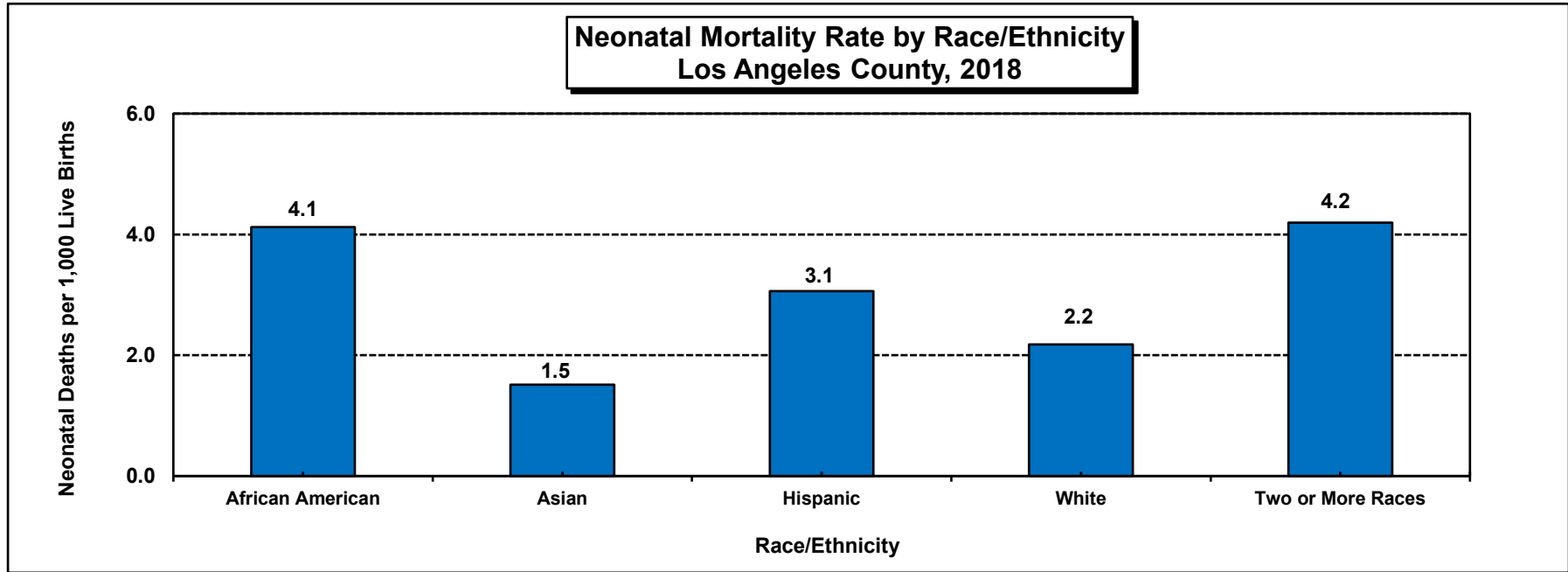


Year 2020 Objective: Reduce the neonatal mortality rate to no more than 4.1 per 1,000 live births.

Note: "Neonatal Mortality" rate is defined as infant deaths occurring less than 28 days per 1,000 live births.

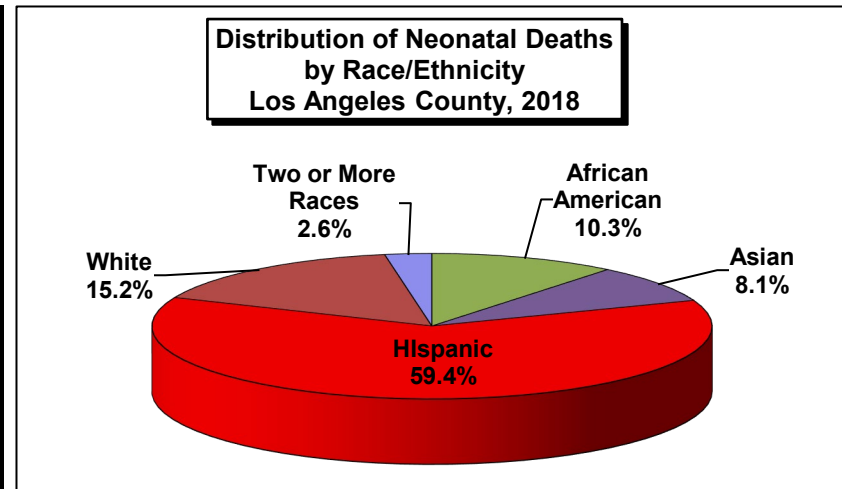
Sources: 2018 birth and death records downloaded from the Vital Record Business Intelligence System (VRBIS) on 02/04/20

California Department of Finance, "Race/Ethnic Population with Age and Sex Detail, 2010-2060", Sacramento, California, May 2019



Los Angeles County, 2018				
Race/Ethnicity	Neonatal Mortality		95% Confidence Interval	
	Deaths	Rate	Lower	Upper
African American	32	4.1	2.7	5.5
Asian	25	1.5	0.9	2.1
Pacific Islander	<5	N/C	N/C	N/C
Hispanic	184	3.1	2.6	3.5
Native American	<5	N/C	N/C	N/C
White	47	2.2	1.6	2.8
Two or More Races	8	4.2	1.3	7.1
Other/ Unknown	11	6.9	2.8	11.0
Total	310	2.8	2.5	3.1

Total Live Births
7,761
16,532
258
60,133
124
21,581
1,908
1,596
109,893



Year 2020 Objective: Reduce the neonatal mortality rate to no more than 4.1 per 1,000 live births.

Notes: "Neonatal Mortality" rate is defined as infant deaths occurring less than 28 days per 1,000 live births.

Numbers fewer than 5 are shown as "<5". Rates are not calculated (N/C) if number is fewer than five.

Sources: 2018 birth and death records downloaded from the Vital Record Business Intelligence System (VRBIS) on 02/04/20

Post-Neonatal Mortality

TITLE V INDICATOR TEMPLATE

INDICATOR: Post-Neonatal Mortality Rate

DEFINITION: The number of infant deaths occurring from 28 through 364 days of age per 1,000 live births

NUMERATOR: The number of infant deaths occurring from 28 through 364 days of age, 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 the post-neonatal mortality rate to no more than 2.0 per 1,000 live births.
(Baseline: 2.2 per 1,000 live births in 2006) (Objective MICH-1.5)

RISK FACTORS:

Congenital anomalies; injuries; infection in late pregnancy; family history of SIDS; maternal smoking or drug use; young maternal age (teen births); race/ethnicity (African American, Puerto Rican)

See also risk factors for infant mortality.

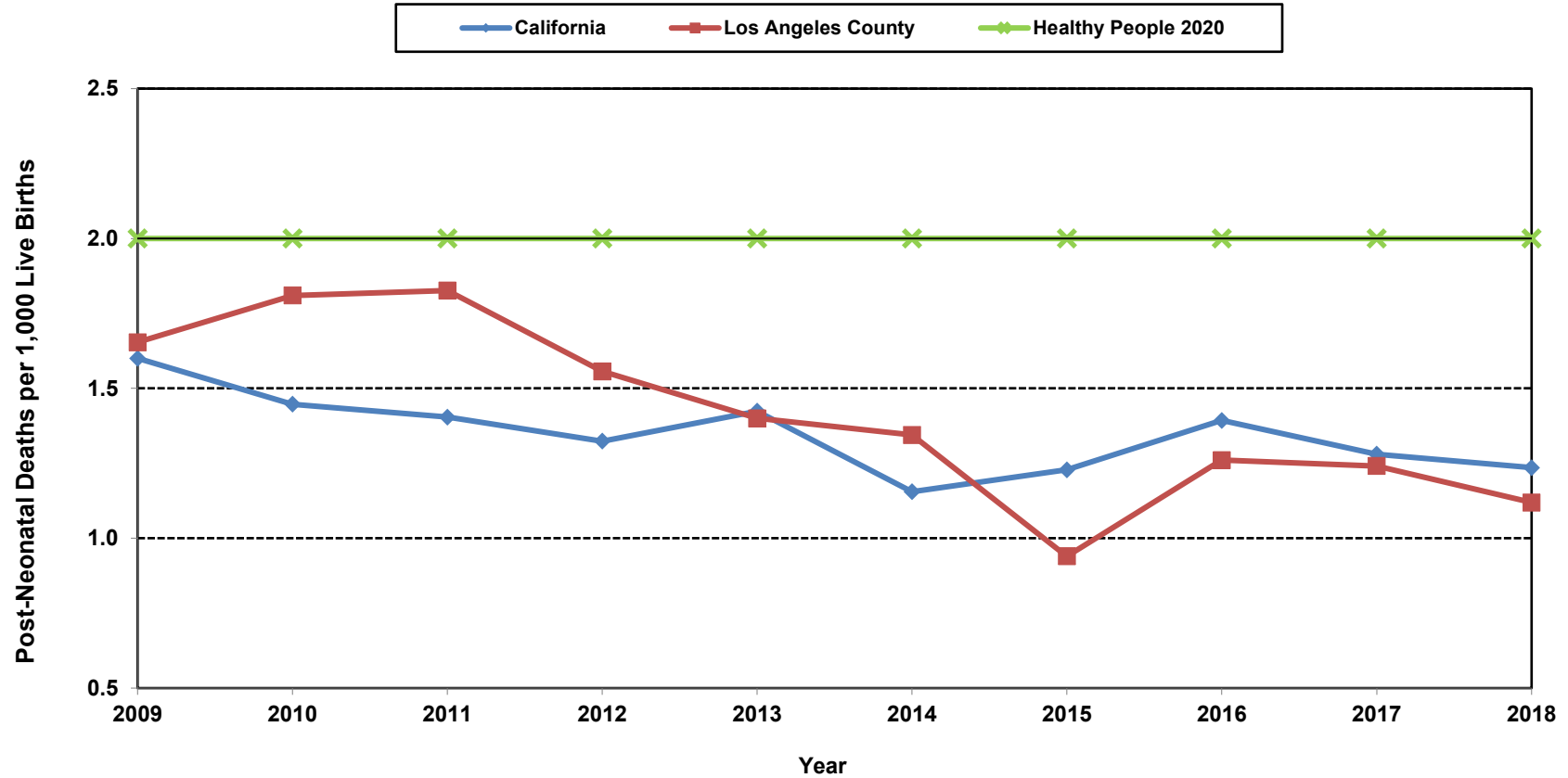
Year	California				Los Angeles County				Denominator: Live Births		
	Post-Neonatal Mortality		95% Confidence Interval		Post-Neonatal Mortality		95% Confidence Interval		Year	California	LA County
	Deaths	Rate	Lower	Upper	Deaths	Rate	Lower	Upper			
2009	843	1.6	1.5	1.7	231	1.7	1.4	1.9	2009	526,774	139,679
2010	738	1.4	1.3	1.6	241	1.8	1.6	2.0	2010	509,979	133,160
2011	705	1.4	1.3	1.5	238	1.8	1.6	2.1	2011	502,023	130,313
2012	667	1.3	1.2	1.4	205	1.6	1.3	1.8	2012	503,788	131,697
2013	704	1.4	1.3	1.5	180	1.4	1.2	1.6	2013	494,392	128,526
2014	581	1.2	1.1	1.2	175	1.3	1.1	1.5	2014	502,973	130,150
2015	604	1.2	1.1	1.3	117	0.9	0.8	1.1	2015	491,748	124,507
2016	681	1.4	1.3	1.5	155	1.3	1.1	1.5	2016	488,827	122,941
2017	604	1.3	1.2	1.4	145	1.2	1.0	1.4	2017	471,658	116,850
2018	562	1.2	1.1	1.3	123	1.1	0.9	1.3	2018	454,920	109,893

Note: "Post-Neonatal Mortality" rate is defined as infant deaths occurring 28 through 364 days of age per 1,000 live births.

Data Sources: 2018 birth and death records downloaded from the Vital Record Business Intelligence System (VRBIS) on 02/04/20

California Department of Finance, "Race/Ethnic Population with Age and Sex Detail, 2010-2060", Sacramento, California, May 2019

Post-Neonatal Mortality Rate California vs. Los Angeles County, 2009-2018

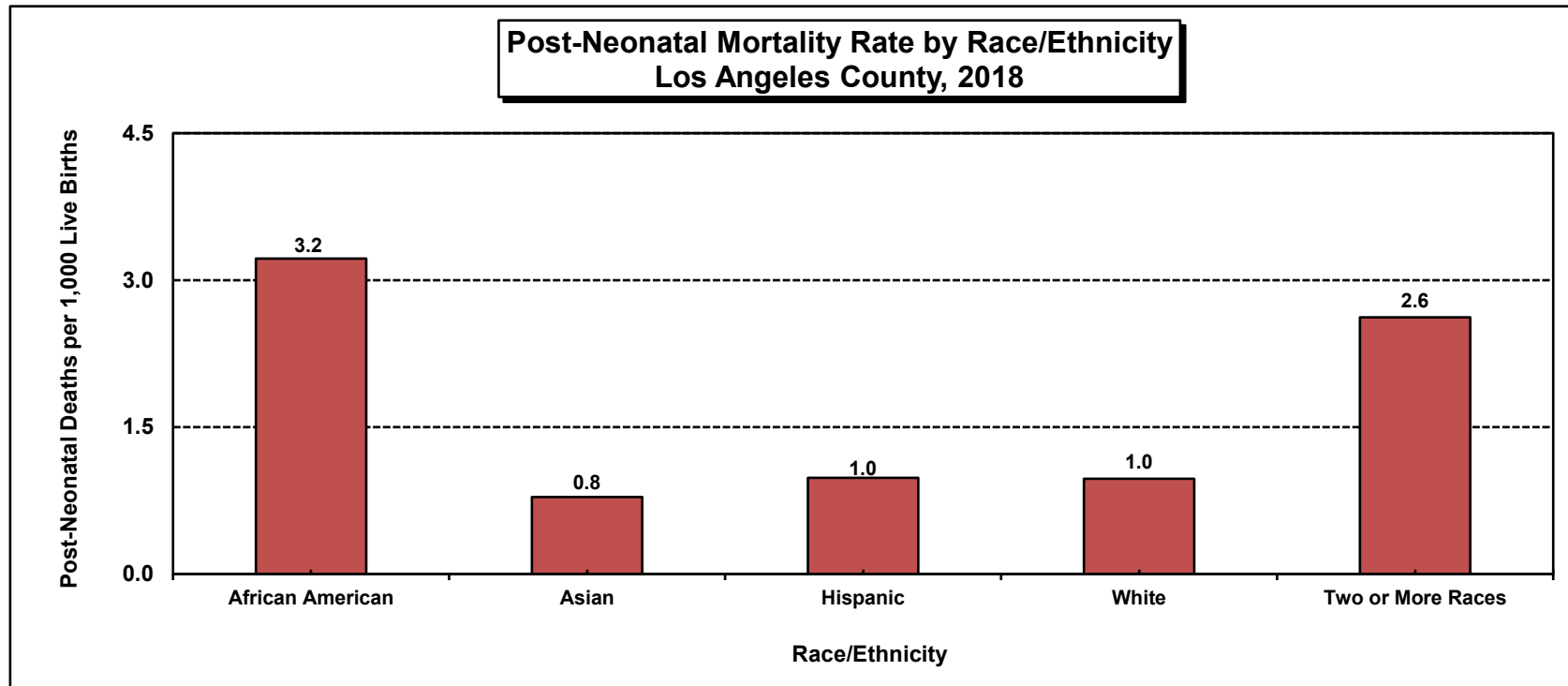


Year 2020 Objective: Reduce the post-neonatal mortality rate to no more than 2.0 per 1,000 live births.

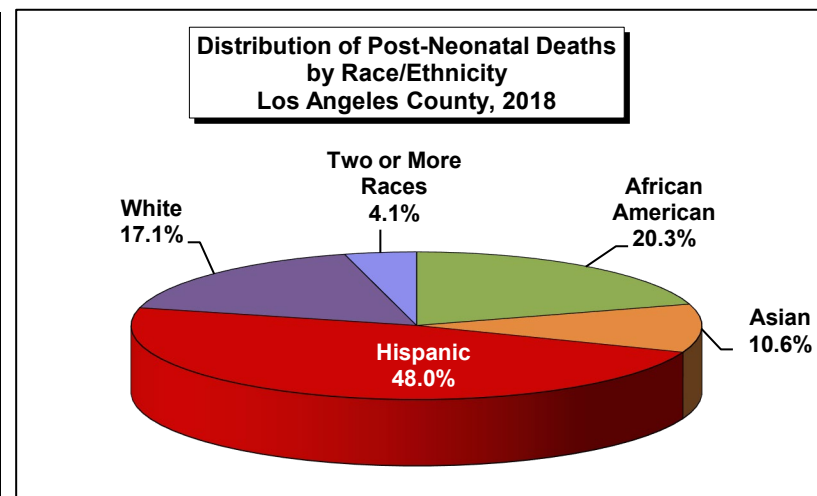
Note: "Post-Neonatal Mortality" rate is defined as infant deaths occurring 28 through 364 days of age per 1,000 live births.

Sources: California Department of Public Health, Death Statistical Master File, 2009-2017

2018 birth and death records downloaded from the Vital Record Business Intelligence System (VRBIS) on 02/04/20
Centers of Disease Control and Prevention (CDC), National Center for Health Statistics (NCHS), Division of Vital Statistics (DVS).
Linked Birth / Infant Death Records 2017, as compiled from data provided by the 57 vital statistics jurisdictions through the Vital
Statistics Cooperative Program, on CDC WONDER On-line Database. Accessed at <http://wonder.cdc.gov/lbd-current-expanded.html>



Los Angeles County, 2018					Total Live Births
Race/Ethnicity	Post-Neonatal Mortality		95% Confidence Interval		
	Deaths	Rate	Lower	Upper	
African American	25	3.2	2.0	4.5	7,761
Asian	13	0.8	0.4	1.2	16,532
Pacific Islander	<5	N/C	N/C	N/C	258
Hispanic	59	1.0	0.7	1.2	60,133
Native American	<5	N/C	N/C	N/C	124
White	21	1.0	0.6	1.4	21,581
Two or More Races	5	2.6	0.3	4.9	1,908
Other/Unknown	<5	N/C	N/C	N/C	1,596
Total	123	1.1	0.9	1.3	109,893



Year 2020 Objective: Reduce the post-neonatal mortality rate to no more than 2.0 per 1,000 live births.

Note: "Post-Neonatal Mortality" rate is defined as infant deaths occurring 28 through 364 days of age per 1,000 live births.

Sources: 2018 birth and death records downloaded from the Vital Record Business Intelligence System (VRBIS) on 02/04/20