Preterm Live Births

INDICATOR: **Percent of Preterm Live Births**

DEFINITION:
The percent of live births occurring at less than 37 weeks of gestation.

NUMERATOR: The number of live births occurring at less than 37 weeks of gestation, 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 preterm births to an incidence of no more than 9.4 percent of live births.
(Objective MICH 9.1: baseline 10.4% in 2007)

RISK FACTORS:
Young or old maternal age; low income; race/ethnicity (African American); short interpregnancy intervals; multiple gestation; poor reproductive history; certain uterine or cervical abnormalities; certain birth defects in the baby; obesity; prior preterm birth; no prenatal care or late entry into prenatal care; low prepregnancy weight; tobacco use during pregnancy; alcohol/substance abuse during pregnancy; low pregnancy weight gain; stress during pregnancy; strenuous exertion during pregnancy; long working hours with long periods of standing; diabetes; high blood pressure; clotting disorders (thrombophilia); vaginal bleeding; vaginal infections; urinary tract infections; domestic violence; being pregnant with a single fetus after in vitro fertilization (IVF)

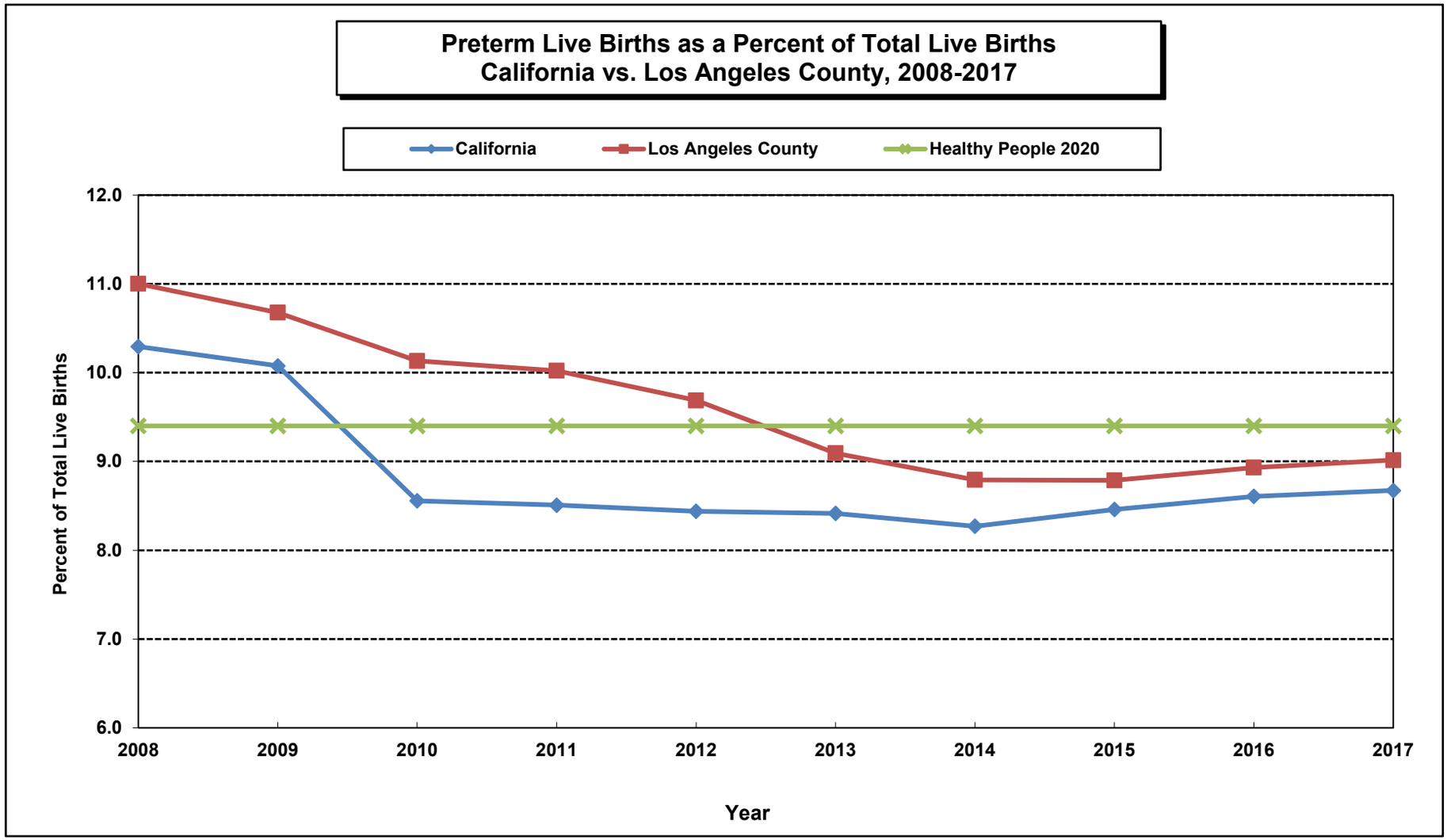
Year	California				Los Angeles County			
	Preterm Live Birth		95% Confidence Interval		Preterm Live Birth		95% Confidence Interval	
	Number	Percent	Lower	Upper	Number	Percent	Lower	Upper
2008	56,777	10.3	10.2	10.4	16,248	11.0	10.8	11.2
2009	53,081	10.1	10.0	10.2	14,914	10.7	10.5	10.8
2010	43,527	8.6	8.5	8.6	13,493	10.1	10.0	10.3
2011	42,616	8.5	8.4	8.6	13,059	10.0	9.9	10.2
2012	42,427	8.4	8.4	8.5	12,758	9.7	9.5	9.8
2013	41,540	8.4	8.3	8.5	11,688	9.1	8.9	9.3
2014	41,594	8.3	8.2	8.3	11,442	8.8	8.6	8.9
2015	41,600	8.5	8.4	8.5	10,941	8.8	8.6	8.9
2016	42,074	8.6	8.5	8.7	10,979	8.9	8.8	9.1
2017	40,907	8.7	8.6	8.8	10,534	9.0	8.9	9.2

Denominator: Live Births		
Year	California	LA County
2008	551,567	147,684
2009	526,774	139,679
2010	508,748	133,160
2011	500,909	130,313
2012	502,722	131,697
2013	493,587	128,526
2014	502,973	130,150
2015	491,748	124,507
2016	488,827	122,941
2017	471,658	116,850

Year 2020 Objective: Reduce preterm live births to an incidence of no more than 9.4 percent of live births.

Note: "Preterm Live Births" is defined as live births occurring between 17 and 36 weeks gestation inclusive.
Gestation is calculated based on last menses in years 2007-2014. Gestation calculated based on obstetrical estimate beginning in 2015.

Sources California Department of Public Health, Birth Statistical Master Files, 2008-2017



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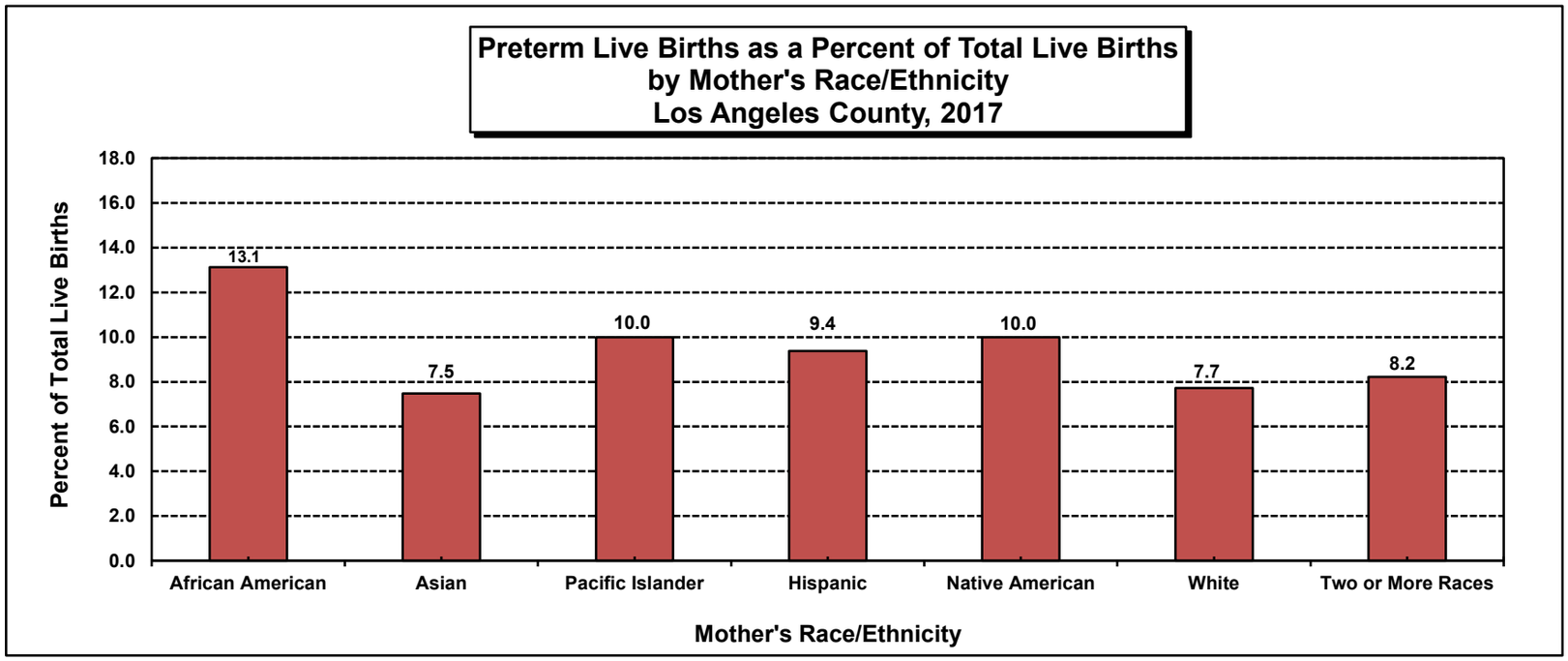
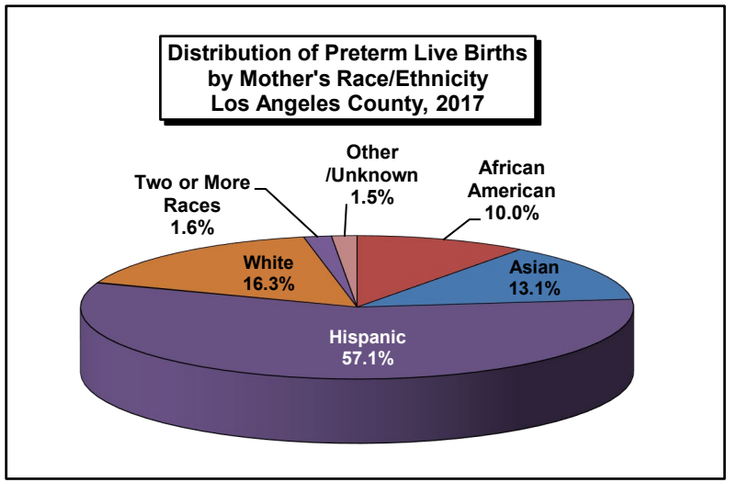
Notes: "Preterm Live Births" is defined as live births occurring between 17 and 36 weeks gestation inclusive.

Gestation calculated based on last menses in years 2007-2014. Gestation calculated based on obstetrical estimate in 2015-2017.

Sources: California Department of Public Health, Birth Statistical Master Files, 2008-2017
Centers for Disease Control and Prevention, Division of Vital Statistics, natality public-use data, CDC WONDER Online Database, September 2019. Accessed at http://wonder.cdc.gov/natality-expanded-current.html (for state population data)



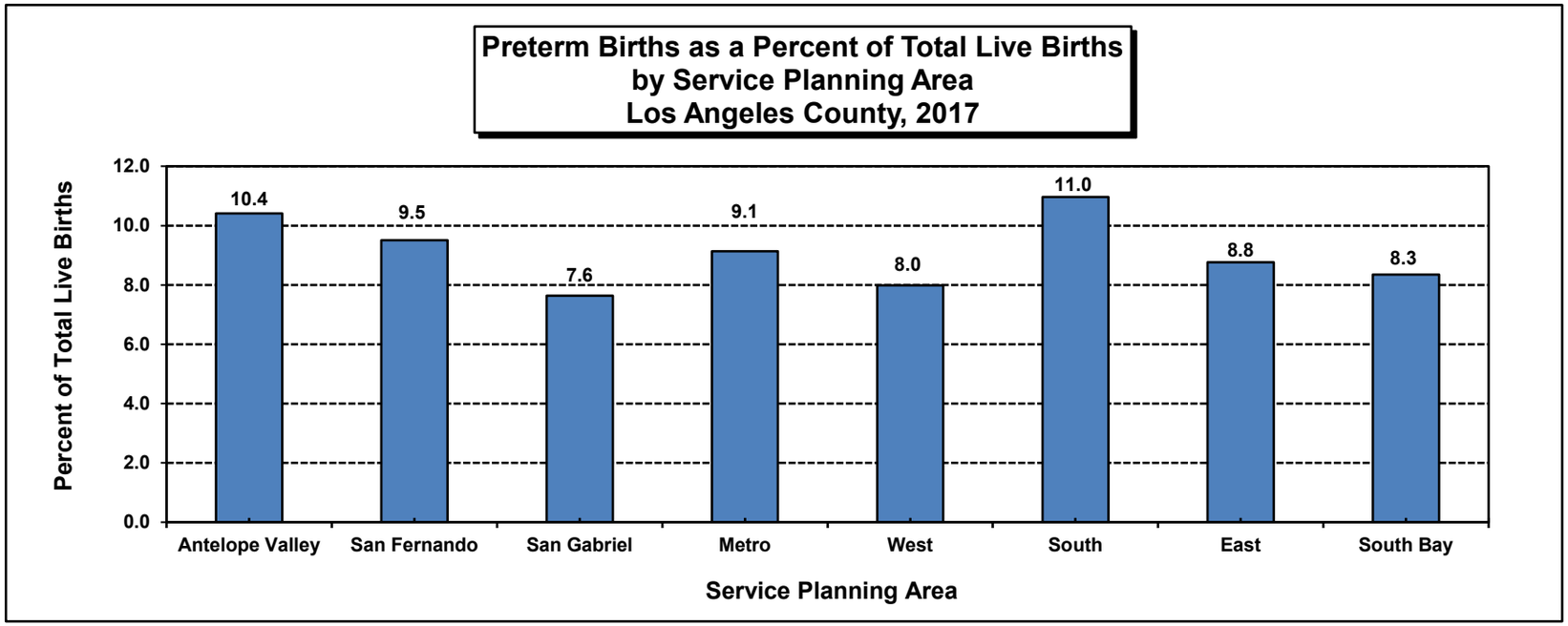
Los Angeles County, 2017					
Mother's Race/Ethnicity	Preterm Live Birth		95% Confidence Interval		Total Live Births
	Number	Percent	Lower	Upper	
African American	1,058	13.1	12.4	13.9	8,064
Asian	1,383	7.5	7.1	7.9	18,490
Pacific Islander	26	10.0	6.4	13.6	260
Hispanic	6,013	9.4	9.2	9.6	64,091
Native American	16	10.0	5.4	14.6	160
White	1,712	7.7	7.4	8.1	22,185
Two or More Races	170	8.2	7.0	9.4	2,069
Other/ Unknown	156	10.2	8.7	11.7	1,531
Total	10,534	9.0	8.9	9.2	116,850



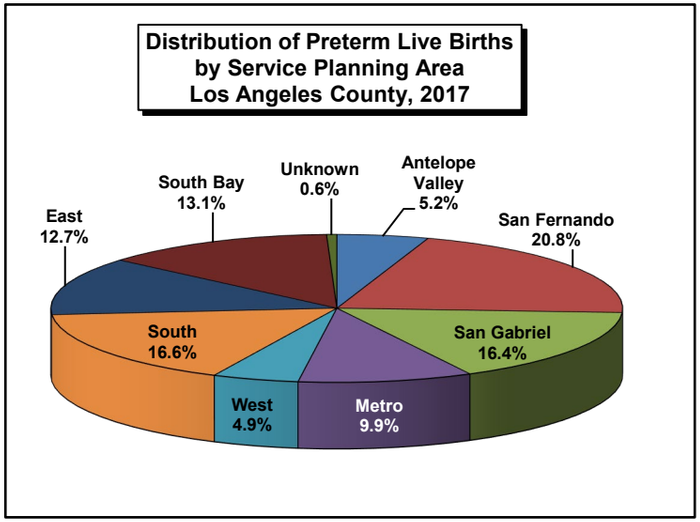
Year 2020 Objective: Reduce preterm live births to an incidence of no more than 9.4 percent of live births.

Notes: "Preterm Live Births" is defined as live births occurring between 17 and 36 weeks gestation inclusive.
Gestation calculated based on obstetrical estimate.

Source: California Department of Public Health, Birth Statistical Master Files, 2017



Los Angeles County, 2017					
Service Planning Area (SPA)	SPA		95% Confidence Interval		Total Live Births
	Number	Percent	Lower	Upper	
Antelope Valley	546	10.4	9.6	11.2	5,246
San Fernando	2,187	9.5	9.1	9.9	23,004
San Gabriel	1,724	7.6	7.3	8.0	22,593
Metro	1,038	9.1	8.6	9.7	11,370
West	513	8.0	7.3	8.6	6,423
South	1,744	11.0	10.5	11.5	15,905
East	1,336	8.8	8.3	9.2	15,240
South Bay	1,385	8.3	7.9	8.8	16,594
Unknown	61	12.8	9.8	15.9	475
Total	10,534	9.0	8.9	9.2	116,850

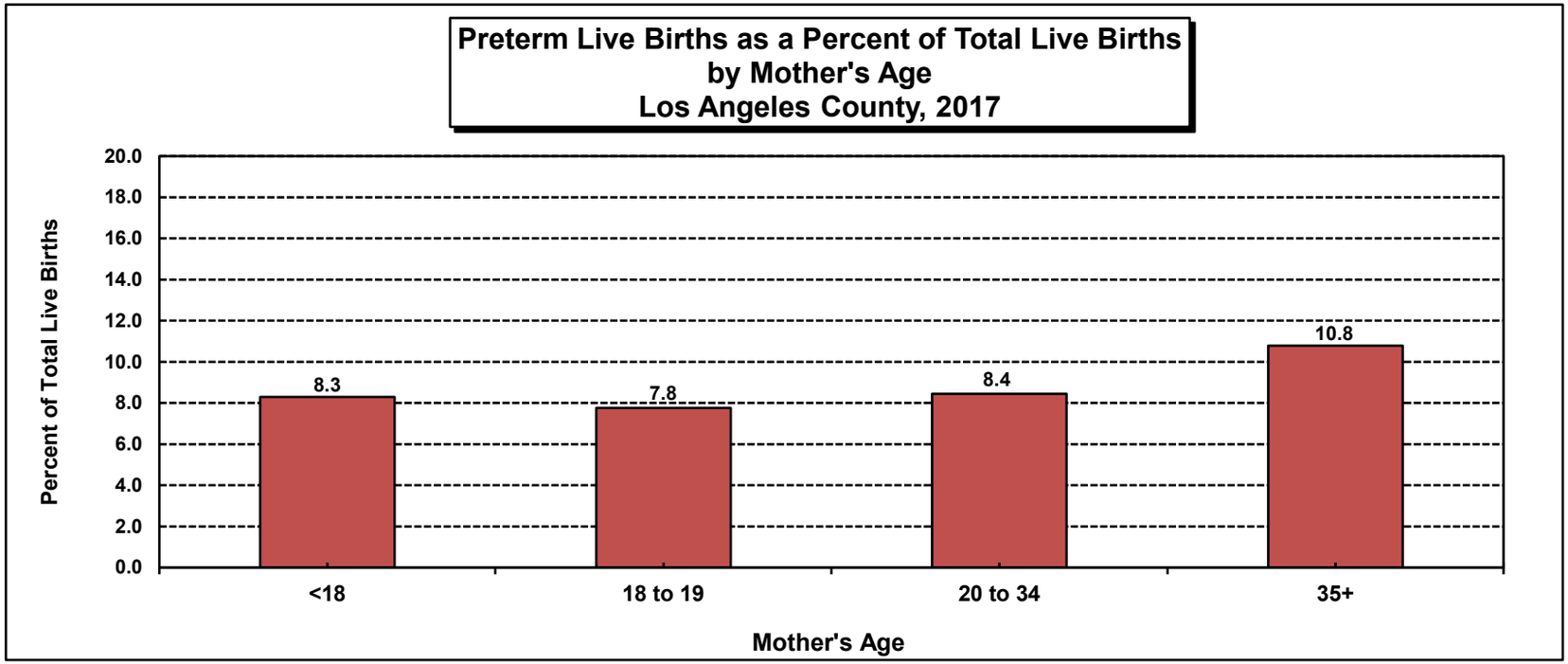


Year 2020 Objective: Reduce preterm live births to an incidence of no more than 9.4 percent of live births.

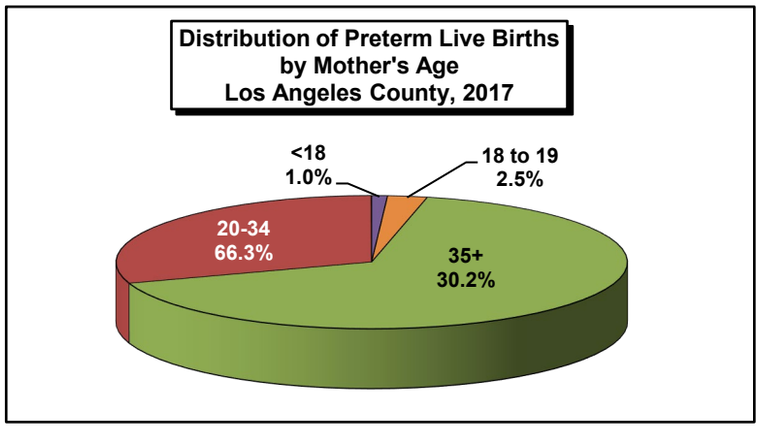
"Preterm Live Births" is defined as live births occurring between 17 and 36 weeks gestation inclusive.

Gestation calculated based on obstetrical estimate.

Source: California Department of Public Health, Birth Statistical Master Files, 2017



Los Angeles County, 2017					
Mother's Age	Preterm Live Birth		95% Confidence Interval		Total Live Births
	Number	Percent	Lower	Upper	
<18	105	8.3	6.8	9.8	1,266
18 to 19	264	7.8	6.9	8.7	3,399
20 to 34	6,986	8.4	8.3	8.6	82,698
35+	3,177	10.8	10.4	11.1	29,462
Other/ Unknown	<5	N/C	N/C	N/C	25
Total	10,534	9.0	8.9	9.2	116,850



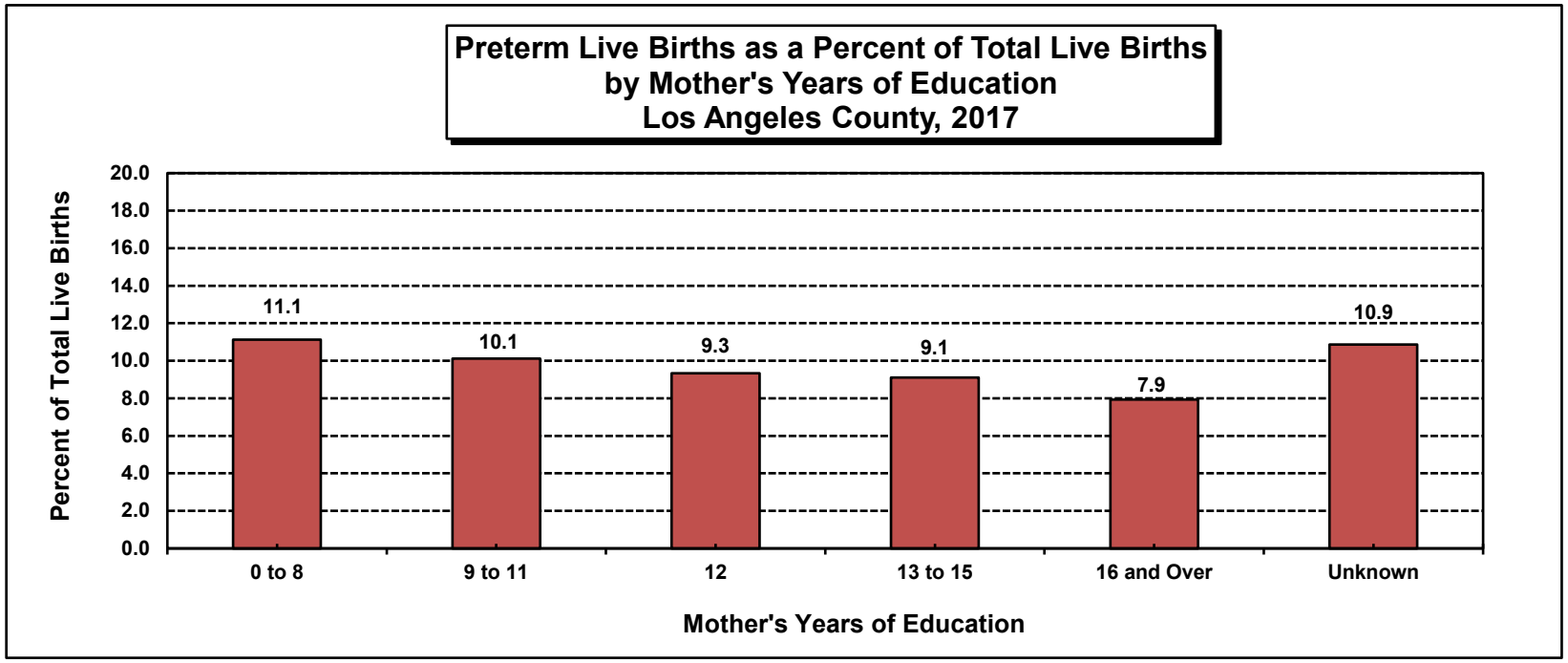
Year 2020 Objective: Reduce preterm live births to an incidence of no more than 9.4 percent of live births.

Notes: "Preterm Live Births" is defined as live births occurring between 17 and 36 weeks gestation inclusive.

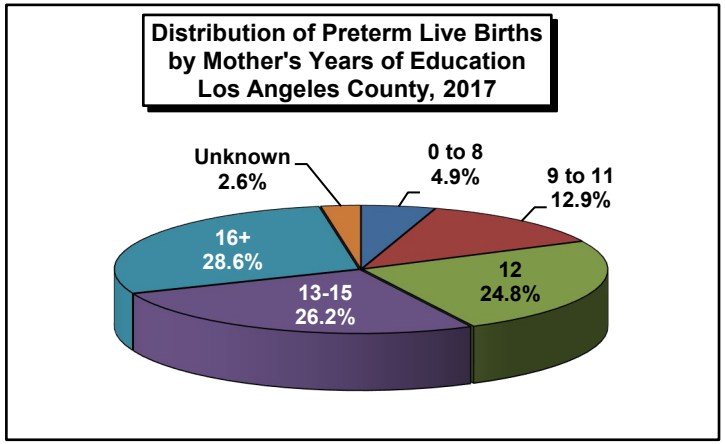
Numbers fewer than 5 are shown as "<5". Rates are not calculated (N/C) if number is fewer than five.

Gestation calculated based on obstetrical estimate.

Source: California Department of Public Health, Birth Statistical Master Files, 2017



Los Angeles County, 2017					
Mother's Years of Education	Preterm Live Births		95% Confidence Interval		Total Live Births
	Number	Percent	Lower	Upper	
0 to 8	514	11.1	10.2	12.0	4,618
9 to 11	1,355	10.1	9.6	10.6	13,404
12	2,614	9.3	9.0	9.7	27,984
13 to 15	2,762	9.1	8.8	9.4	30,342
16 and Over	3,014	7.9	7.7	8.2	37,972
Unknown	275	10.9	9.7	12.1	2,530
Total	10,534	9.0	8.9	9.2	116,850



Year 2020 Objective: Reduce preterm live births to an incidence of no more than 9.4 percent of live births.

Notes: "Preterm Live Births" is defined as live births occurring between 17 and 36 weeks gestation inclusive.
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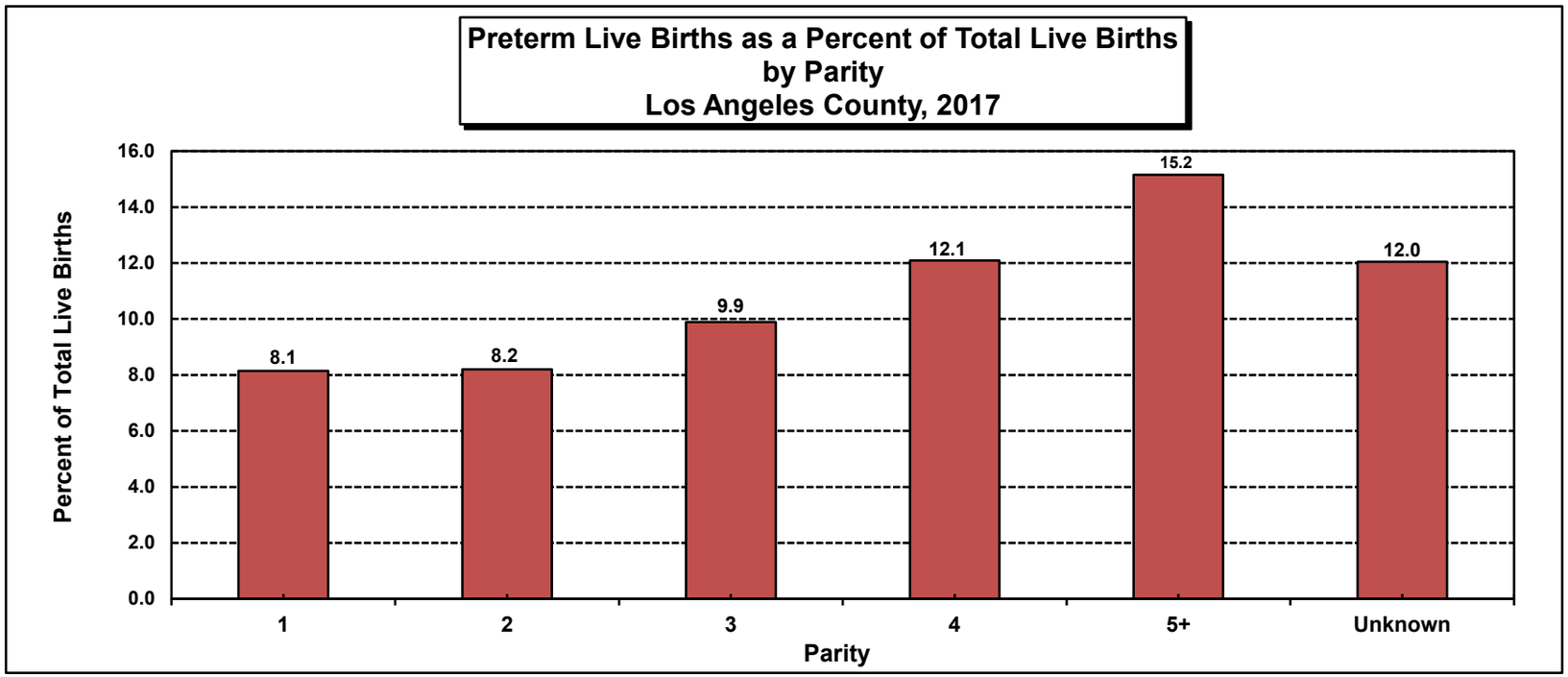
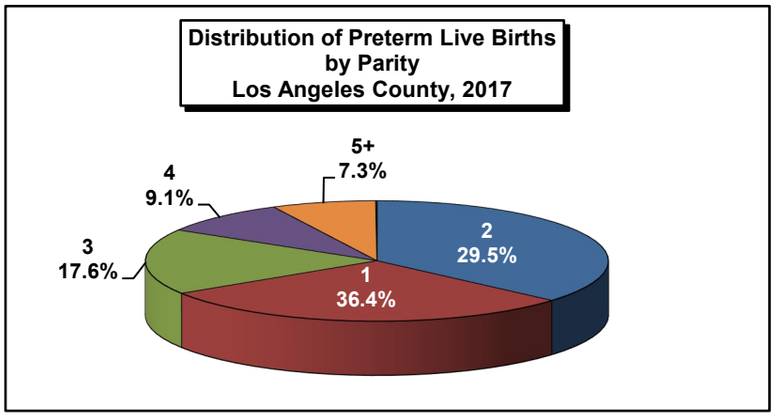
Source: California Department of Public Health, Birth Statistical Master Files, 2017



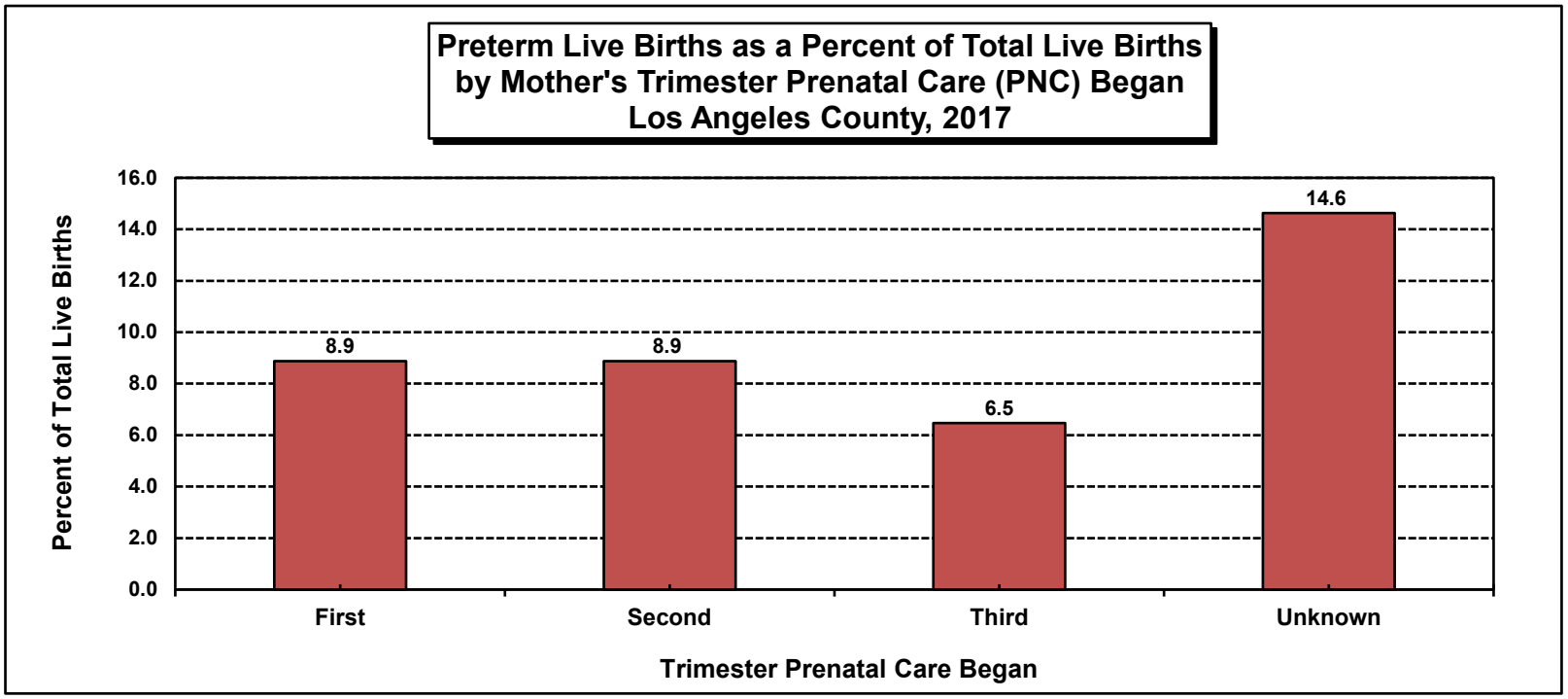
Los Angeles County, 2017					Total Live Births
Parity	Preterm Live Births		95% Confidence Interval		
	Number	Percent	Lower	Upper	
1	3,836	8.1	7.9	8.4	47,110
2	3,108	8.2	7.9	8.5	37,915
3	1,857	9.9	9.5	10.3	18,776
4	956	12.1	11.4	12.8	7,905
5+	767	15.2	14.2	16.1	5,061
Unknown	10	12.0	5.0	19.1	83
Total	10,534	9.0	8.9	9.2	116,850



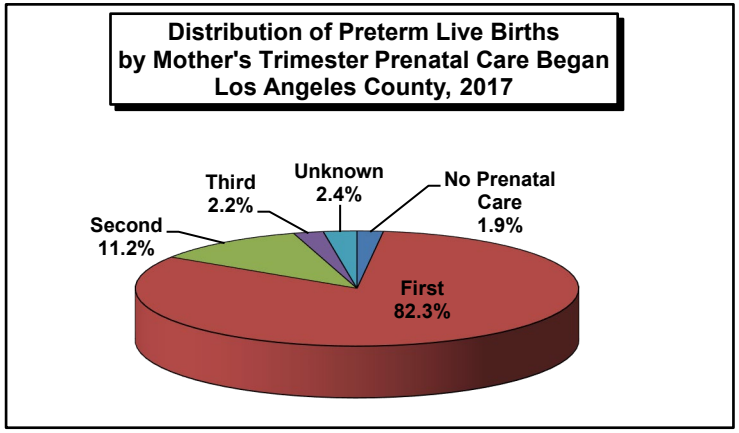
Year 2020 Objective: Reduce preterm live births to an incidence of no more than 9.4 percent of live births.

Notes: "Preterm Live Births" is defined as live births occurring between 17 and 36 weeks gestation inclusive.
"Parity" is defined as the number of pregnancies resulting in live births to a woman.
Gestation calculated based on obstetrical estimate.

Source: California Department of Public Health, Birth Statistical Master Files, 2017



Los Angeles County, 2017					
Mother's Trimester Prenatal Care Began	Preterm Live Births		95% Confidence Interval		Total Live Births
	Number	Percent	Lower	Upper	
No Prenatal Care	201	30.2	26.7	33.7	665
First	8,665	8.9	8.7	9.1	97,572
Second	1,181	8.9	8.4	9.4	13,302
Third	230	6.5	5.7	7.3	3,555
Unknown	257	14.6	13.0	16.3	1,756
Total	10,534	9.0	8.9	9.2	116,850



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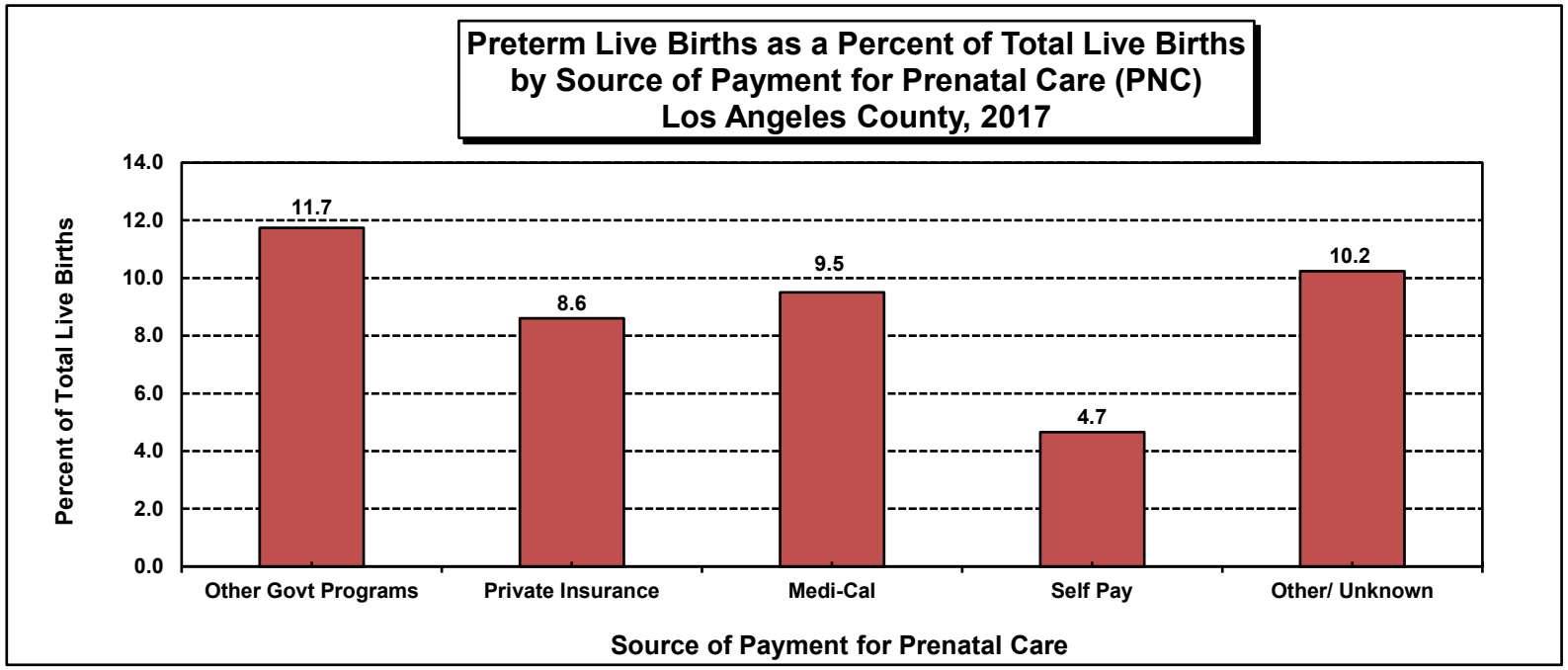
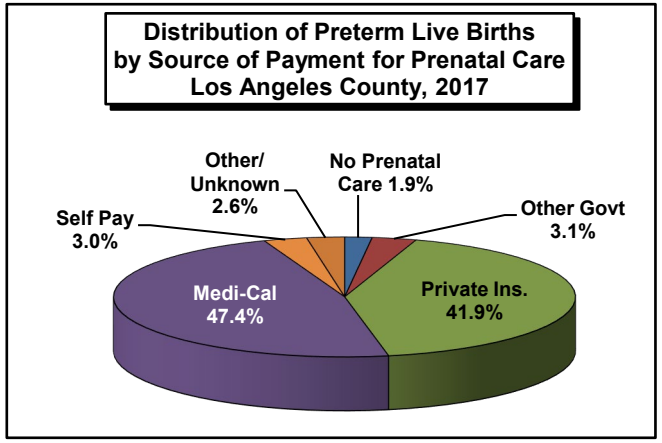


Los Angeles County, 2017					
Source of Payment for Prenatal Care	Preterm Live Births		95% Confidence Interval		Total Live Births
	Number	Percent	Lower	Upper	
No Prenatal Care	201	30.2	26.7	33.7	665
Other Govt Programs	327	11.7	10.5	12.9	2,785
Private Insurance	4,418	8.6	8.4	8.8	51,330
Medi-Cal	4,991	9.5	9.3	9.8	52,500
Self Pay	319	4.7	4.2	5.2	6,855
Other/ Unknown	278	10.2	9.1	11.4	2,715
Total	10,534	9.0	8.9	9.2	116,850



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