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)

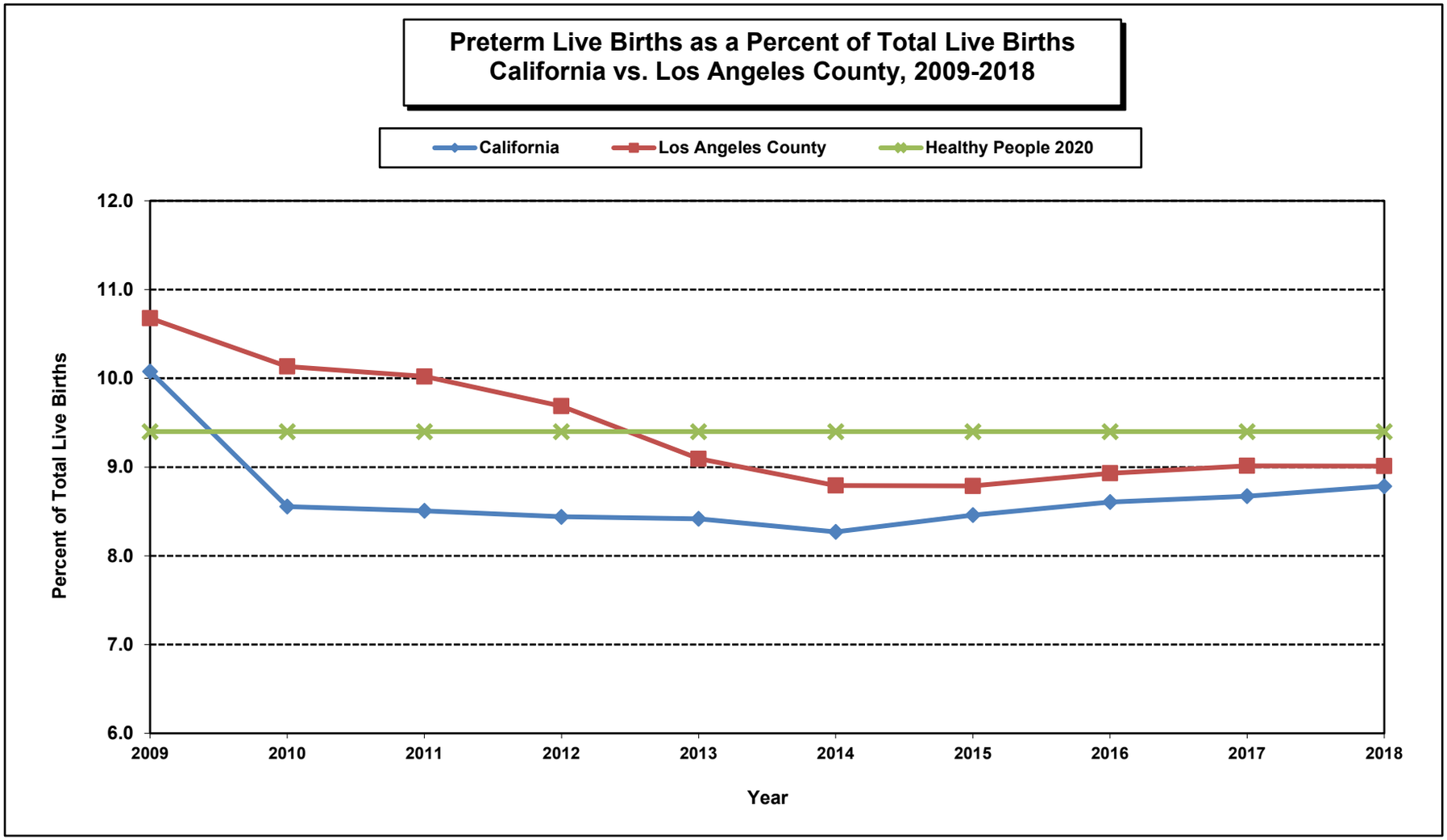
Year	California				Los Angeles County			
	Preterm Live Birth		95% Confidence Interval		Preterm Live Birth		95% Confidence Interval	
	Number	Percent	Lower	Upper	Number	Percent	Lower	Upper
2009	53,081	10.1	10.0	10.2	14,914	10.7	10.5	10.8
2010	43,527	8.6	8.5	8.6	13,493	10.1	10.0	10.3
2011	42,616	8.5	8.4	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
2018	39,964	8.8	8.7	8.9	9,902	9.0	8.8	9.2

Denominator: Live Births		
Year	California	LA County
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
2018	454,920	109,893

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 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, 2009-2017
2018 birth records downloaded from the Vital Record Business Intelligence System (VRBIS) on 02/04/20



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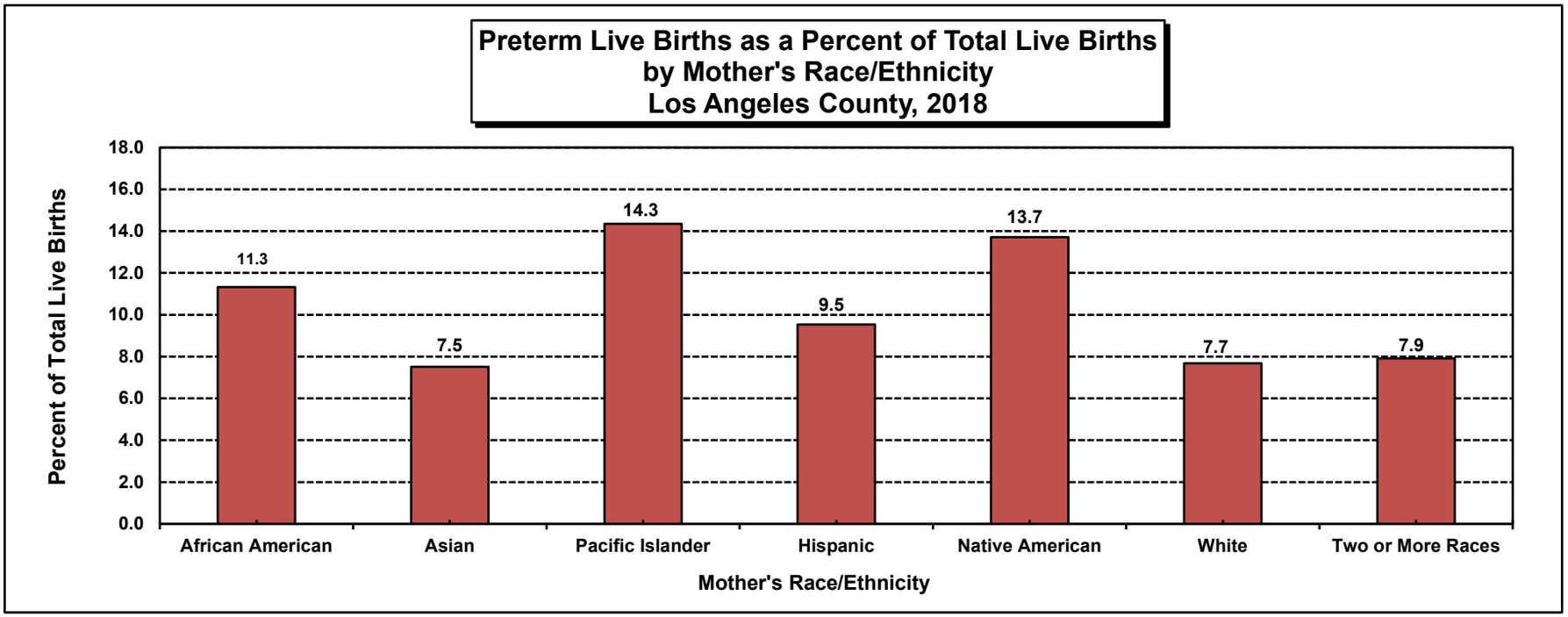
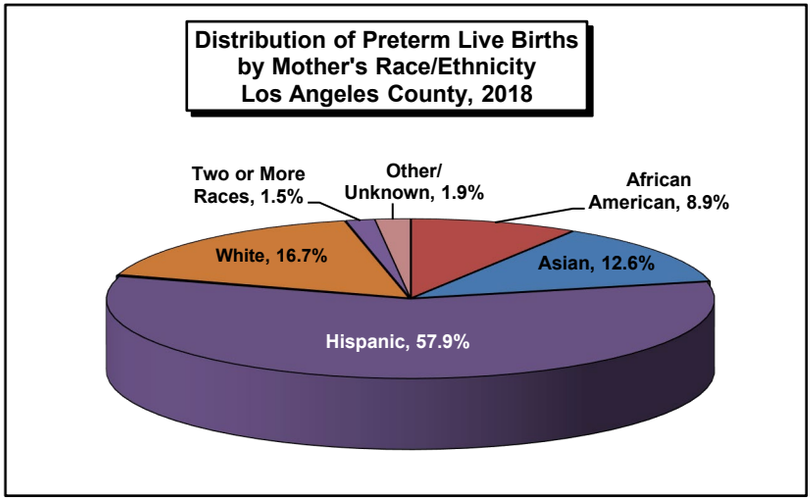


Los Angeles County, 2018					
Mother's Race/Ethnicity	Preterm Live Birth		95% Confidence Interval		Total Live Births
	Number	Percent	Lower	Upper	
African American	879	11.3	10.6	12.0	7,761
Asian	1,243	7.5	7.1	7.9	16,532
Pacific Islander	37	14.3	10.1	18.6	258
Hispanic	5,733	9.5	9.3	9.8	60,133
Native American	17	13.7	7.7	19.8	124
White	1,658	7.7	7.3	8.0	21,581
Two or More Races	151	7.9	6.7	9.1	1,908
Other/ Unknown	184	11.5	10.0	13.1	1,596
Total	9,902	9.0	8.8	9.2	109,893



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

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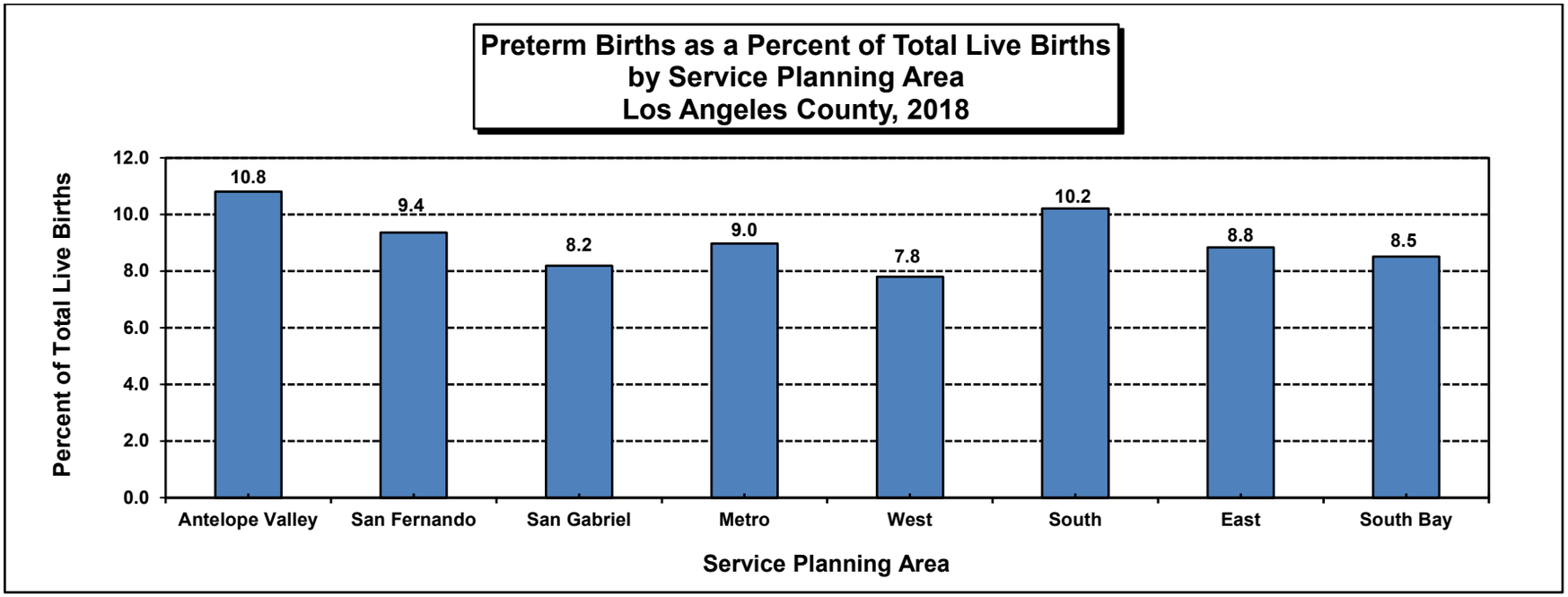
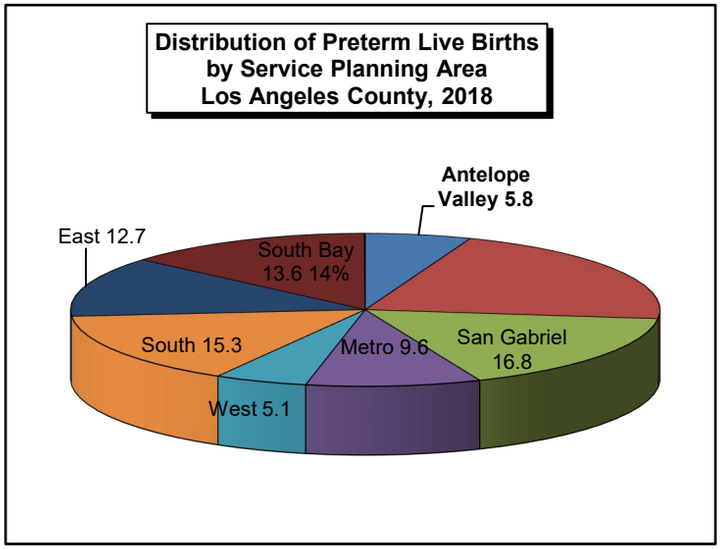


Los Angeles County, 2018					
Service Planning Area (SPA)	SPA		95% Confidence Interval		Total Live Births
	Number	Percent	Lower	Upper	
Antelope Valley	576	10.8	10.0	11.6	5,327
San Fernando	2,088	9.4	9.0	9.7	22,305
San Gabriel	1,659	8.2	7.8	8.6	20,259
Metro	948	9.0	8.4	9.5	10,558
West	503	7.8	7.1	8.5	6,449
South	1,514	10.2	9.7	10.7	14,826
East	1,261	8.8	8.4	9.3	14,268
South Bay	1,349	8.5	8.1	8.9	15,847
Unknown	4	N/C	N/C	N/C	54
Total	9,902	9.0	8.8	9.2	109,893

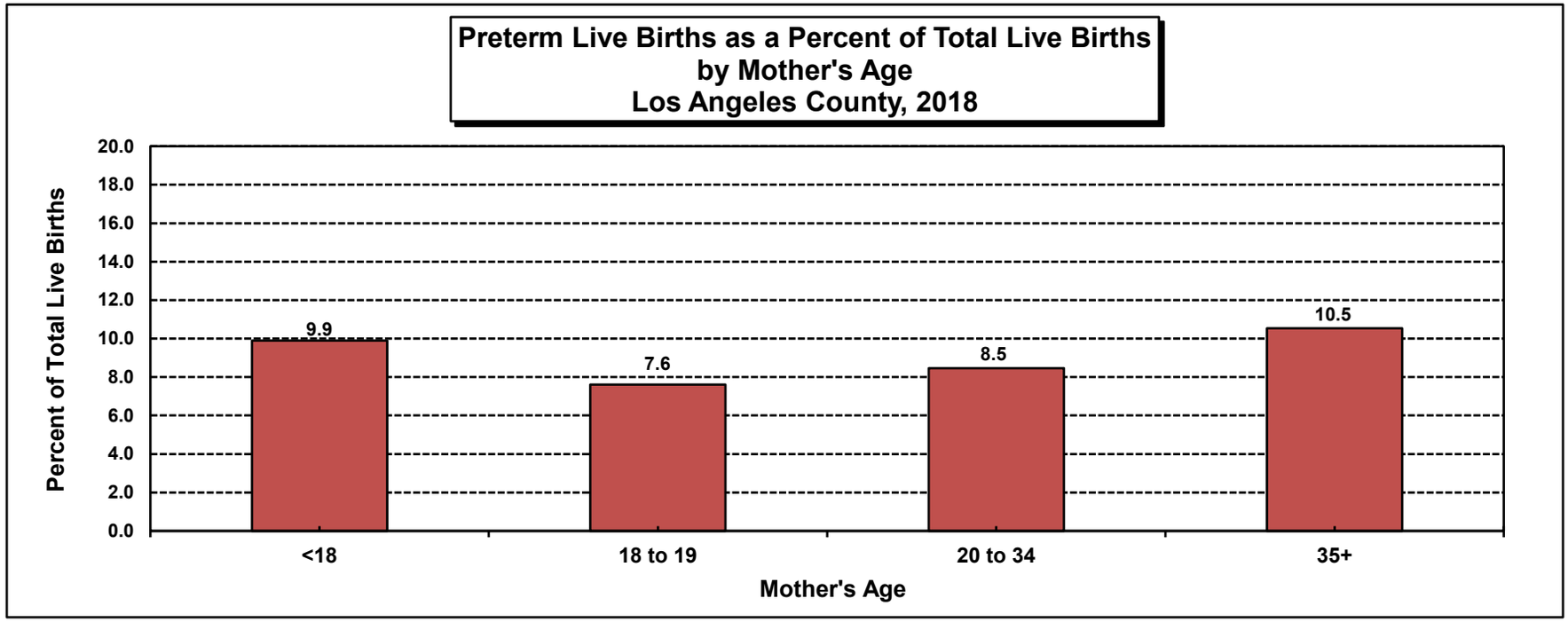


Year 2020 Objective: Reduce preterm live births to an incidence of no more than 9.4 percent of live births.

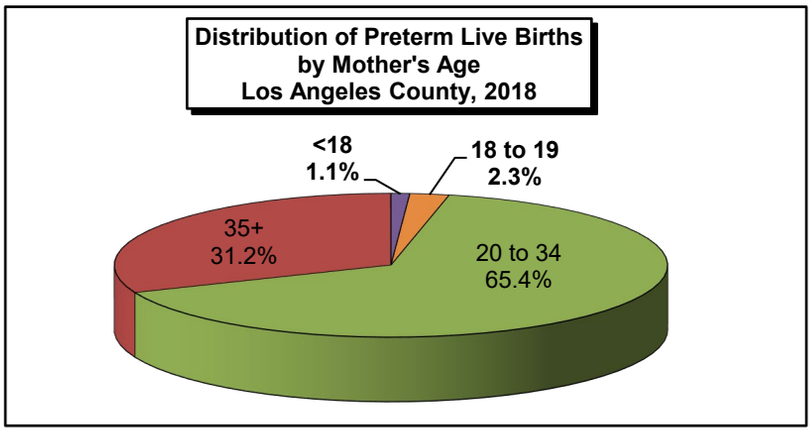
"Preterm Live Births" is defined as live births occurring between 17 and 36 weeks gestation inclusive.

Gestation calculated based on obstetrical estimate.

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



Los Angeles County, 2018					
Mother's Age	Preterm Live Birth		95% Confidence Interval		Total Live Births
	Number	Percent	Lower	Upper	
<18	108	9.9	8.1	11.7	1,092
18 to 19	227	7.6	6.7	8.6	2,986
20 to 34	6,472	8.5	8.3	8.7	76,448
35+	3,094	10.5	10.2	10.9	29,356
Other/ Unknown	<5	N/C	N/C	N/C	11
Total	9,902	9.0	8.8	9.2	109,893



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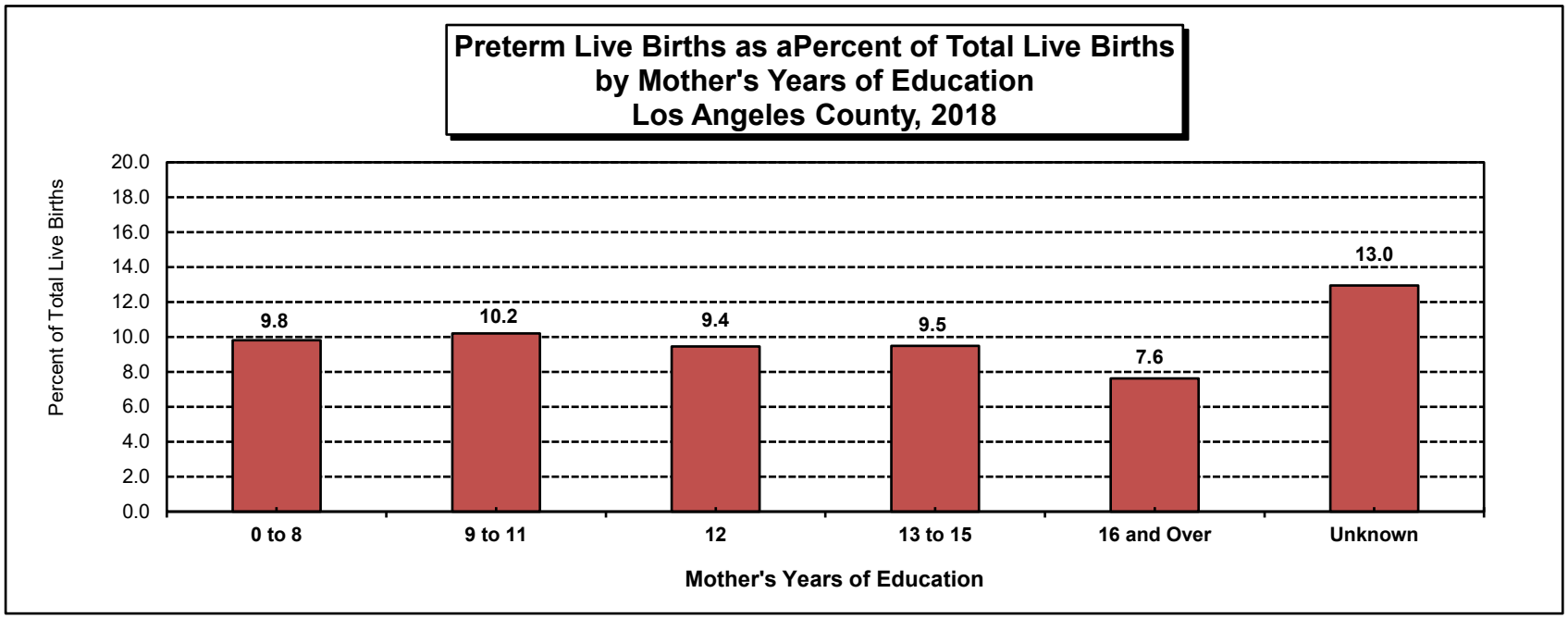
Notes: "Preterm Live Births" is defined as live births occurring between 17 and 36 weeks gestation inclusive.

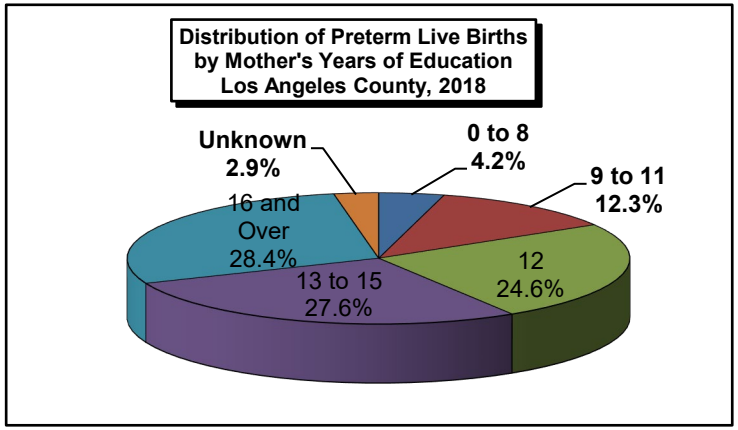
Numbers fewer than 5 are shown as "<5". Rates are not calculated (N/C) if number is fewer than five.

Gestation calculated based on obstetrical estimate.

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



Los Angeles County, 2018					Total Live Births
Mother's Years of Education	Preterm Live Births		95% Confidence Interval		
	Number	Percent	Lower	Upper	
0 to 8	416	9.8	8.9	10.7	4,243
9 to 11	1,215	10.2	9.7	10.7	11,905
12	2,440	9.4	9.1	9.8	25,821
13 to 15	2,737	9.5	9.1	9.8	28,849
16 and Over	2,810	7.6	7.3	7.9	36,882
Unknown	284	13.0	11.5	14.4	2,193
Total	9,902	9.0	8.8	9.2	109,893



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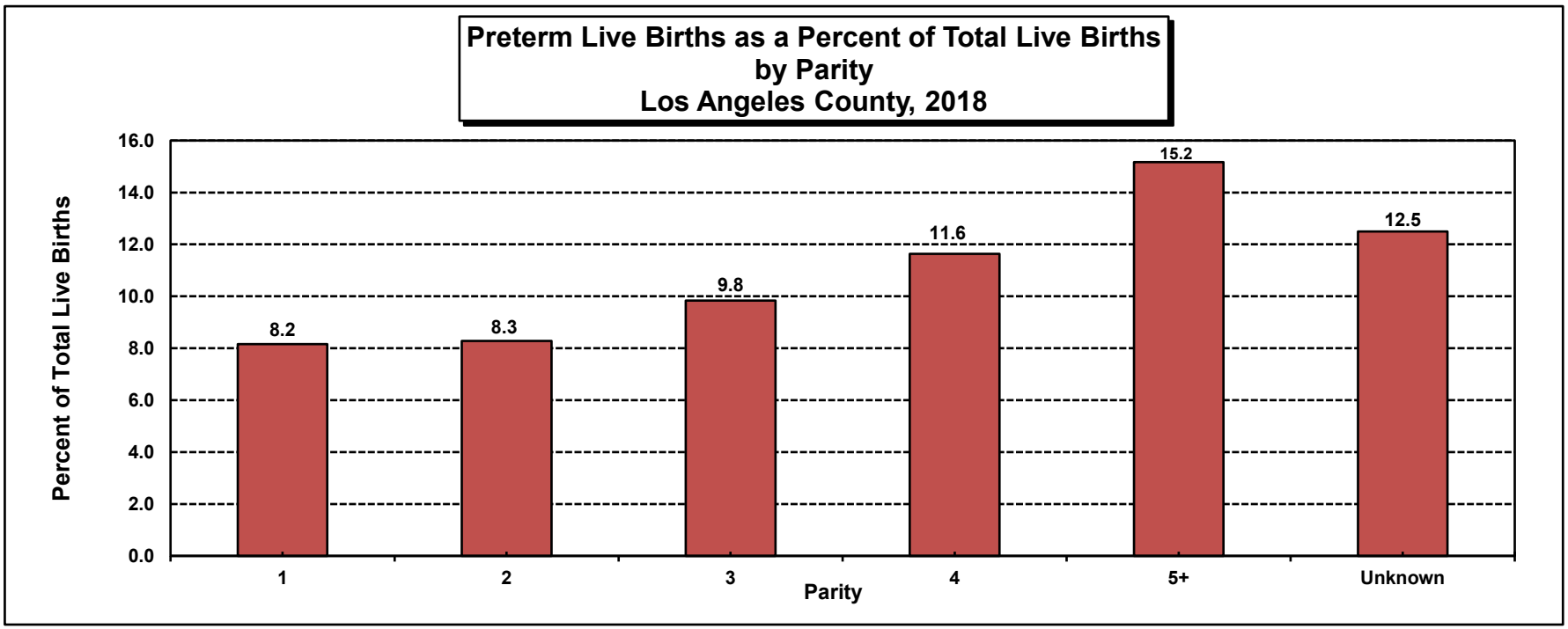
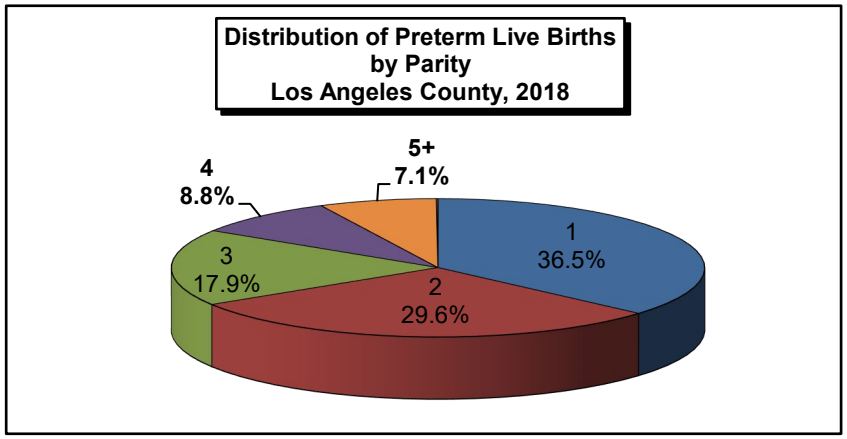


Los Angeles County, 2018					
Parity	Preterm Live Births		95% Confidence Interval		Total Live Births
	Number	Percent	Lower	Upper	
1	3,613	8.2	7.9	8.4	44,273
2	2,928	8.3	8.0	8.6	35,360
3	1,775	9.8	9.4	10.3	18,053
4	869	11.6	10.9	12.4	7,466
5+	707	15.2	14.1	16.2	4,661
Unknown	10	12.5	5.3	19.7	80
Total	9,902	9.0	8.8	9.2	109,893



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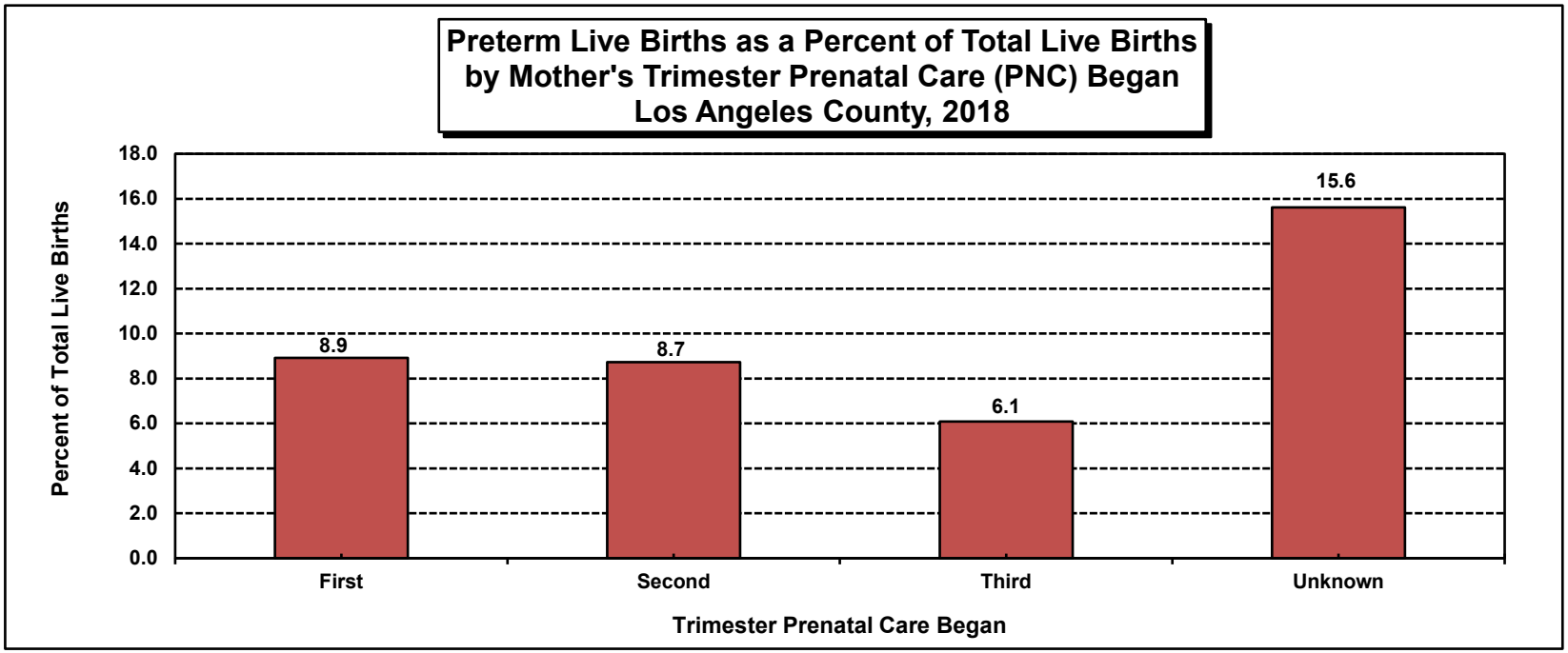
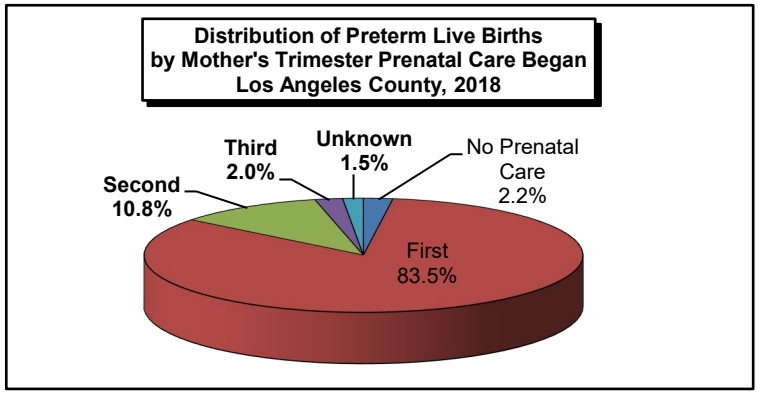
"Parity" is defined as the number of pregnancies resulting in live births to a woman.

Gestation calculated based on obstetrical estimate.

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



Los Angeles County, 2018					Total Live Births
Mother's Trimester Prenatal Care Began	Preterm Live Births		95% Confidence Interval		
	Number	Percent	Lower	Upper	
No Prenatal Care	214	34.3	30.6	38.1	623
First	8,266	8.9	8.7	9.1	92,721
Second	1,070	8.7	8.2	9.2	12,266
Third	202	6.1	5.3	6.9	3,322
Unknown	150	15.6	13.3	17.9	961
Total	9,902	9.0	8.8	9.2	109,893



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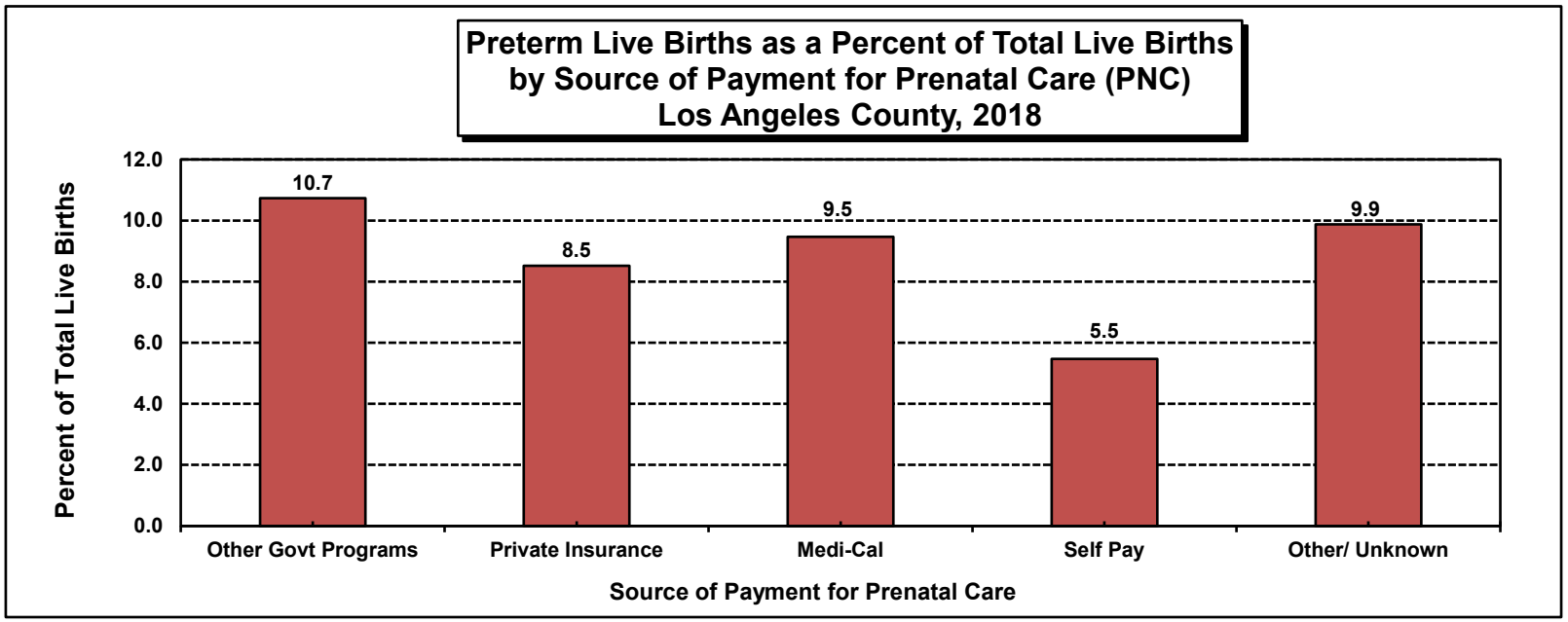
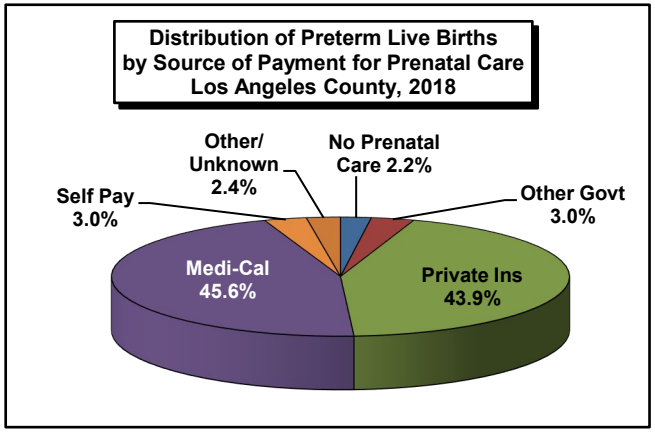


Los Angeles County, 2018					
Source of Payment for Prenatal Care	Preterm Live Births		95% Confidence Interval		Total Live Births
	Number	Percent	Lower	Upper	
No Prenatal Care	214	34.3	30.6	38.1	623
Other Govt Programs	301	10.7	9.6	11.9	2,804
Private Insurance	4,343	8.5	8.3	8.8	50,988
Medi-Cal	4,511	9.5	9.2	9.7	47,667
Self Pay	296	5.5	4.9	6.1	5,410
Other/ Unknown	237	9.9	8.7	11.1	2,401
Total	9,902	9.0	8.8	9.2	109,893



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