Early Preterm

INDICATOR: **Percent of Early Preterm Live Births**

DEFINITION: The percent of live births occurring at less than 32 weeks of gestation.

NUMERATOR: The number of live births occurring at less than 32 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 early preterm births to an incidence of no more than 1.5 percent of live births. (Baseline: 1.7 percent in 2007) (Objective MICH–9.4)

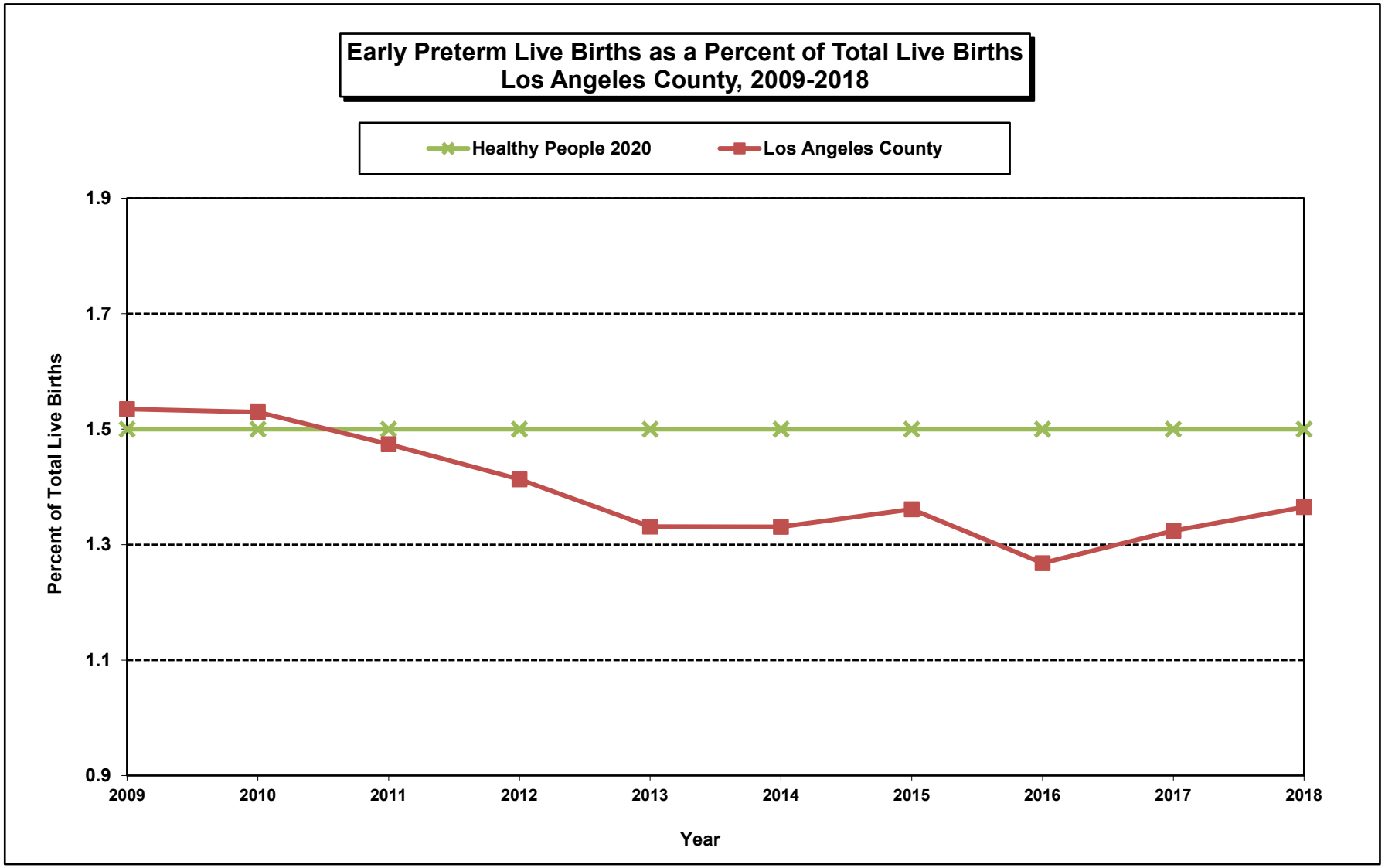
RISK FACTORS:

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)

	Los Angeles County			
Year	Early Preterm		95% Confidence Interval	
	Number	Percent	Lower	Upper
2009	2,144	1.5	1.5	1.6
2010	2,037	1.5	1.5	1.6
2011	1,921	1.5	1.4	1.5
2012	1,861	1.4	1.3	1.5
2013	1,711	1.3	1.3	1.4
2014	1,732	1.3	1.3	1.4
2015	1,695	1.4	1.3	1.4
2016	1,559	1.3	1.2	1.3
2017	1,547	1.3	1.3	1.4
2018	1,500	1.4	1.3	1.4

Denominator: Live Births	
Year	LA County
2009	139,679
2010	133,160
2011	130,313
2012	131,697
2013	128,526
2014	130,150
2015	124,507
2016	122,941
2017	116,850
2018	109,893

Note: Gestation calculated based on last menses in years 2007-2014. Gestation calculated based on obstetrical estimate in beginning in 2015.
Source: California Department of Public Health, Birth Statistical Master File, 2018



Year 2020 Objective: Reduce early preterm live births to an incidence of no more than 1.5 percent of live births.

Note: Gestation calculated based on last menses in years 2007-2014. Gestation calculated based on obstetrical estimate in beginning in 2015.

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

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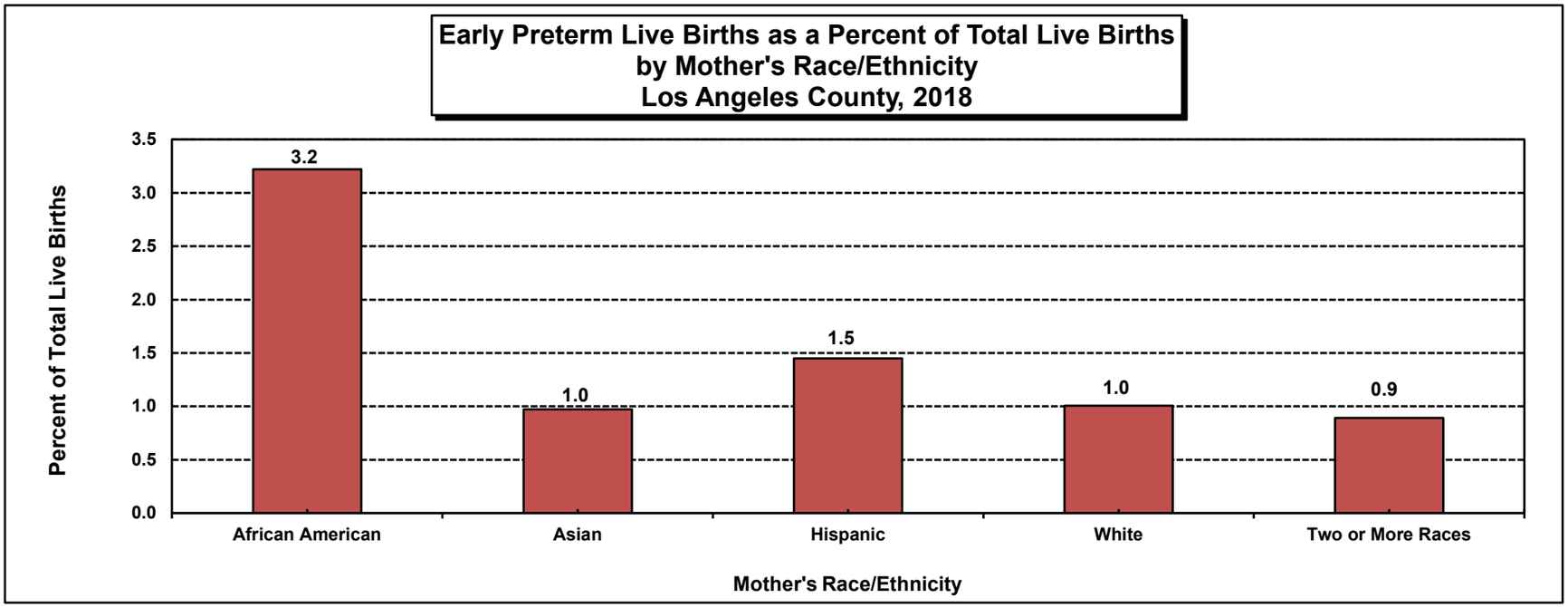
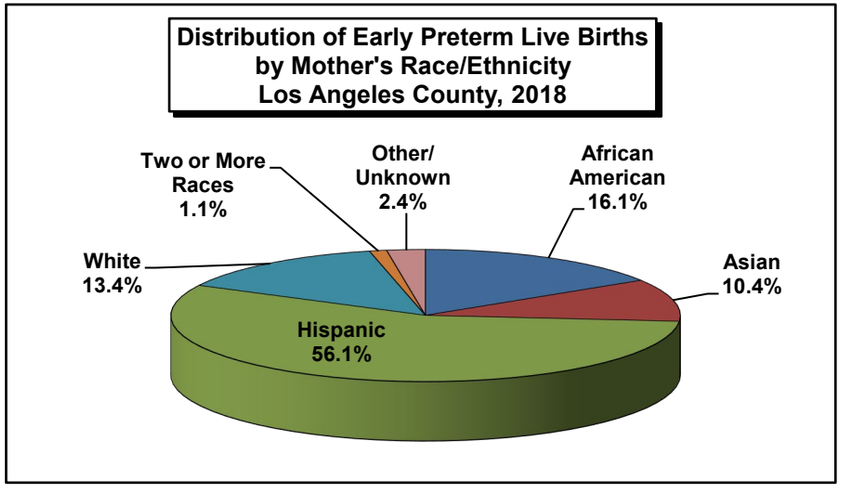


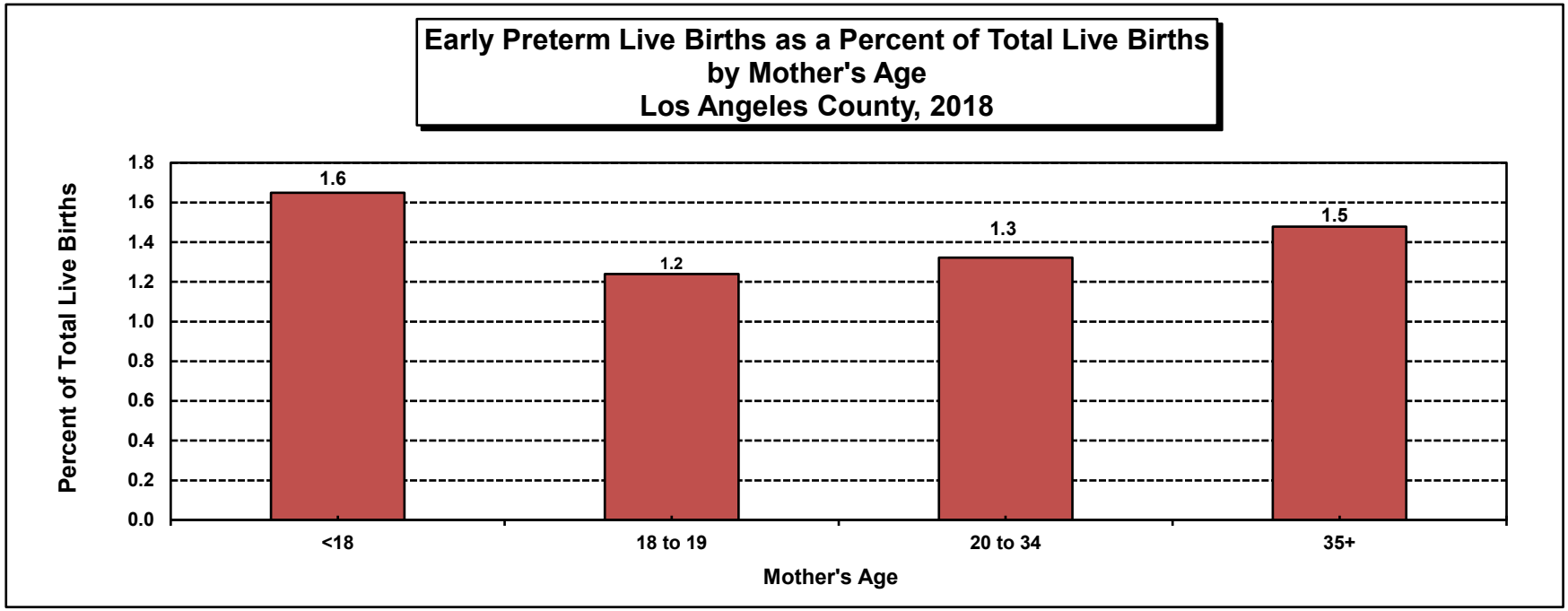
Los Angeles County, 2018					
Mother's Race/Ethnicity	Early Preterm Live Births		95% Confidence Interval		Total Live Births
	Number	Percent	Lower	Upper	
African American	250	3.2	2.8	3.6	7,761
Asian	161	1.0	0.8	1.1	16,532
Hispanic	872	1.5	1.4	1.5	60,133
Native American	<5	N/C	N/C	N/C	124
White	217	1.0	0.9	1.1	21,581
Two or More Races	17	0.9	0.5	1.3	1,908
Pacific Islander	<5	N/C	N/C	N/C	258
Other/ Unknown	38	2.4	1.6	3.1	1,596
Total	1,500	1.4	1.3	1.4	109,893



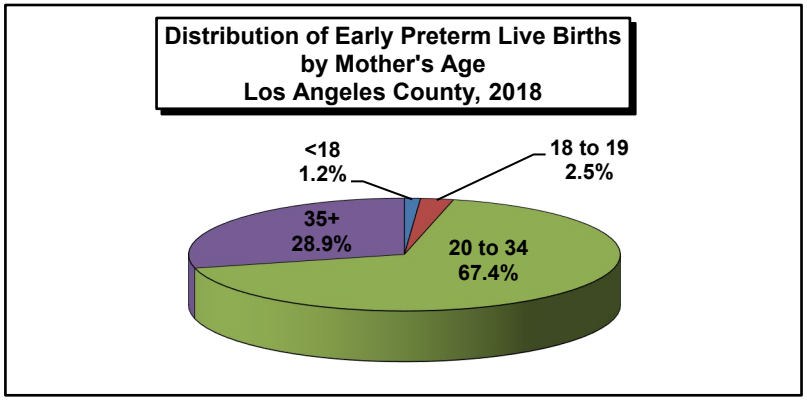
Year 2020 Objective: Reduce early preterm live births to an incidence of no more than 1.5 percent of live births.

Notes: "Early Preterm Live Births" is defined as live births occurring at less than 32 weeks of gestation.
Gestation calculated based on obstetrical estimate.
Numbers fewer than 5 are shown as "<5". Rates are not calculated (N/C) if number is fewer than five.

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



Los Angeles County, 2018					
Mother's Age	Early Preterm Live Births		95% Confidence Interval		Total Live Births
	Number	Percent	Lower	Upper	
<18	18	1.6	0.9	2.4	1,092
18 to 19	37	1.2	0.8	1.6	2,986
20 to 34	1,011	1.3	1.2	1.4	76,448
35+	434	1.5	1.3	1.6	29,356
Other/Unknown	<5	N/C	N/C	N/C	11
Total	1,500	1.4	1.3	1.4	109,893



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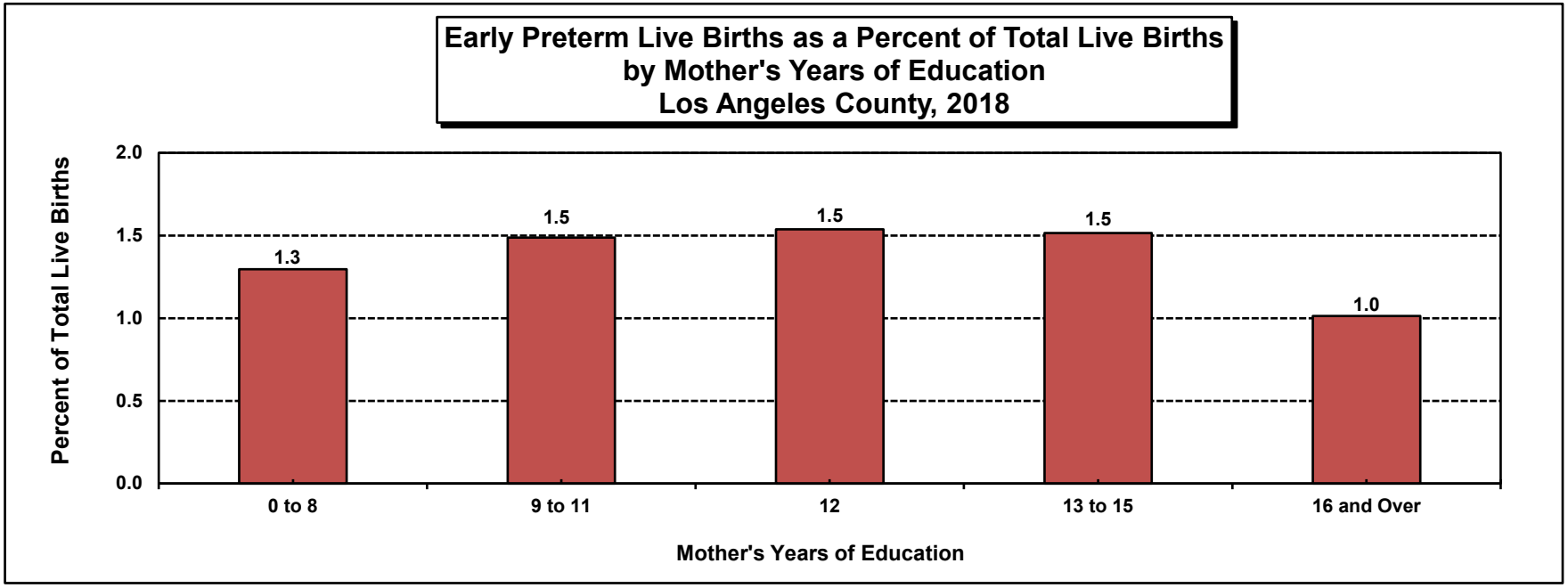
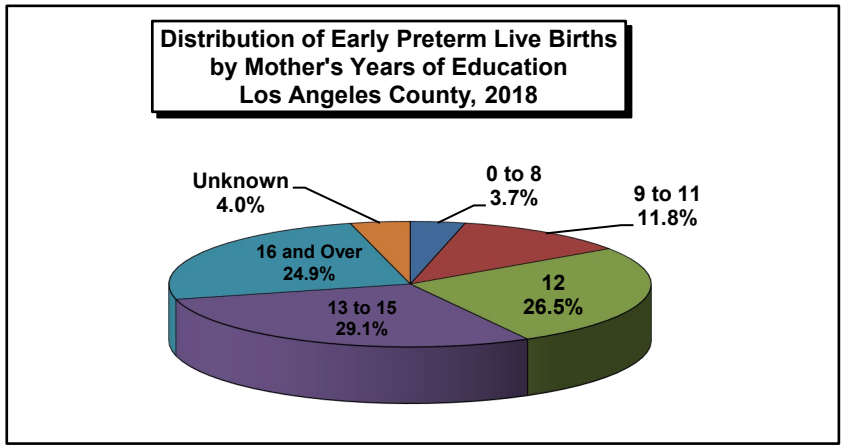


Los Angeles County, 2018					
Mother's Years of Education	Early Preterm Live Births		95% Confidence Interval		Total Live Births
	Number	Percent	Lower	Upper	
0 to 8	55	1.3	1.0	1.6	4,243
9 to 11	177	1.5	1.3	1.7	11,905
12	397	1.5	1.4	1.7	25,821
13 to 15	437	1.5	1.4	1.7	28,849
16 and Over	374	1.0	0.9	1.1	36,882
Unknown	60	2.7	2.1	3.4	2,193
Total	1,500	1.4	1.3	1.4	109,893



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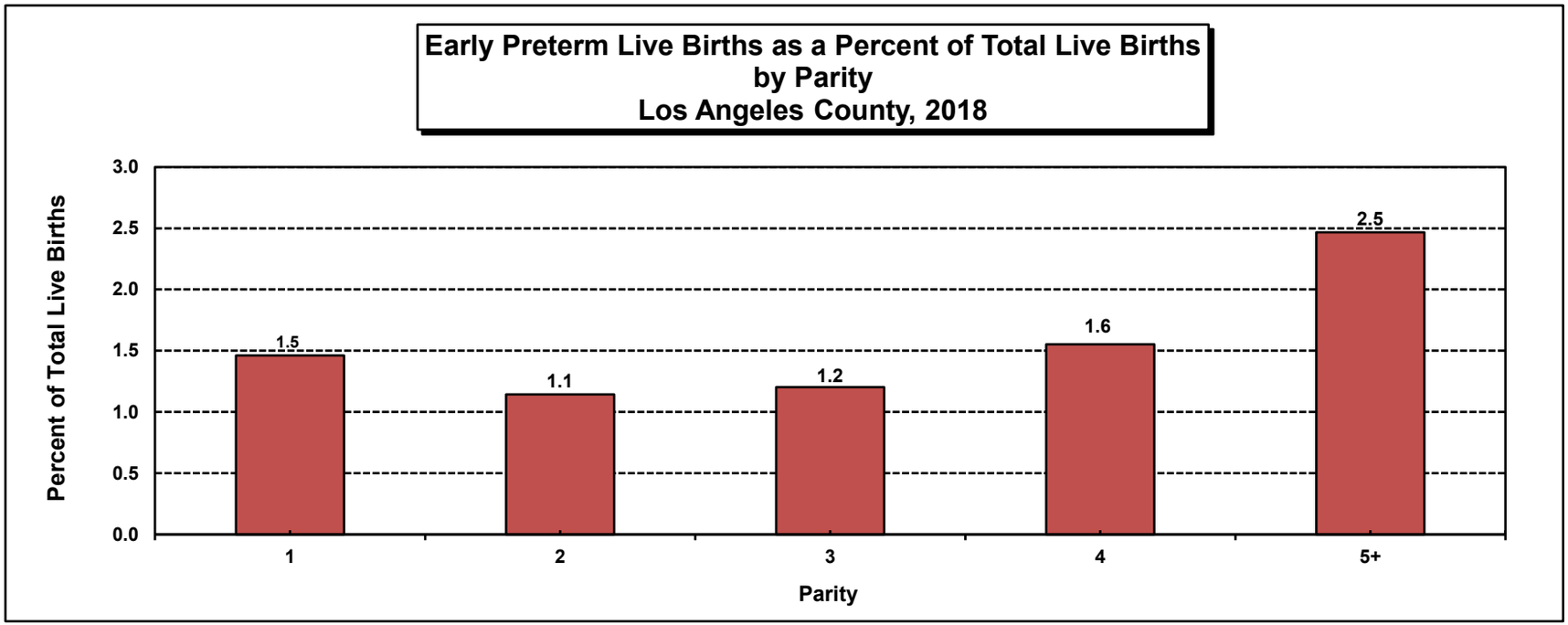
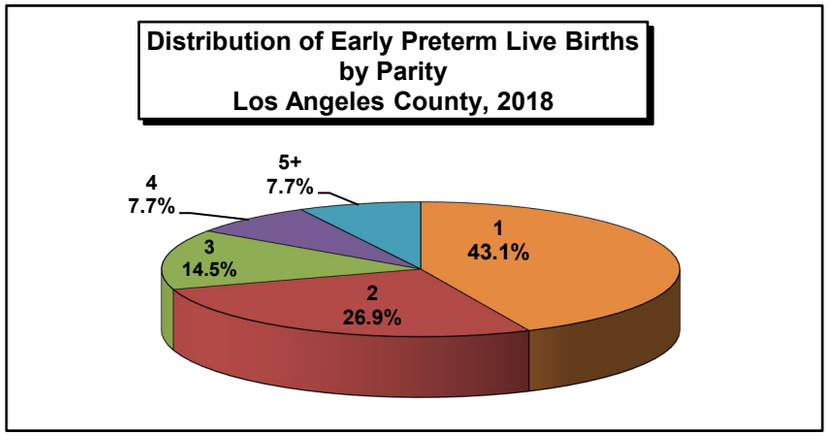


Los Angeles County, 2018					
Parity	Early Preterm Live Births		95% Confidence Interval		Total Live Births
	Number	Percent	Lower	Upper	
1	647	1.5	1.3	1.6	44,273
2	404	1.1	1.0	1.3	35,360
3	217	1.2	1.0	1.4	18,053
4	116	1.6	1.3	1.8	7,466
5+	115	2.5	2.0	2.9	4,661
Unknown	<5	N/C	N/C	N/C	80
Total	1,500	1.4	1.3	1.4	109,893



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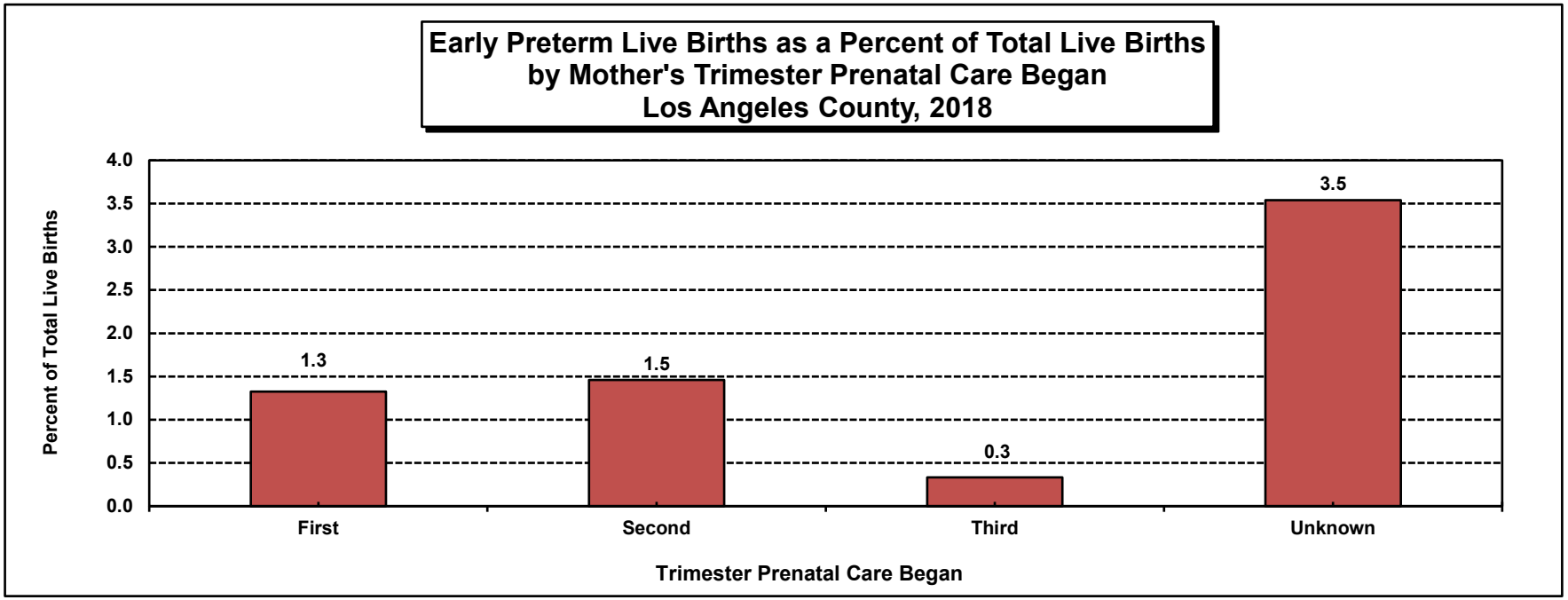
Notes: "Early Preterm Live Births" is defined as live births occurring at less than 32 weeks of gestation.

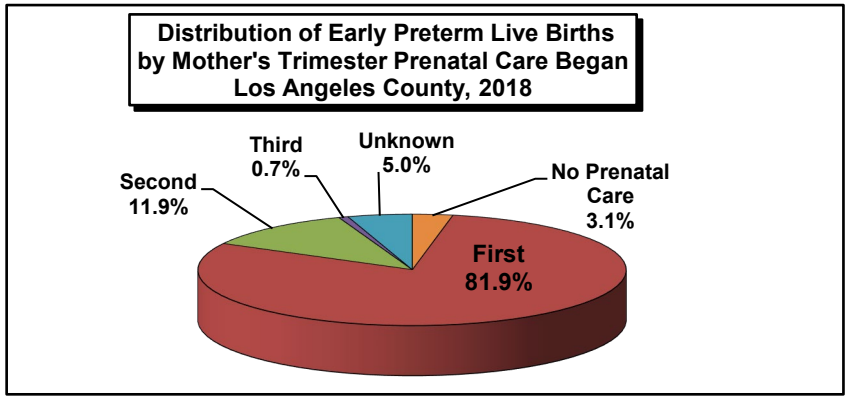
Gestation calculated based on obstetrical estimate.

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

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



Los Angeles County, 2018					
Mother's Trimester Prenatal Care Began	Early Preterm Live Births		95% Confidence Interval		Total Live Births
	Number	Percent	Lower	Upper	
No Prenatal Care	47	7.5	5.5	9.6	623
First	1,229	1.3	1.3	1.4	92,721
Second	179	1.5	1.2	1.7	12,266
Third	11	0.3	0.1	0.5	3,322
Unknown	34	3.5	2.4	4.7	961
Total	1,500	1.4	1.3	1.4	109,893



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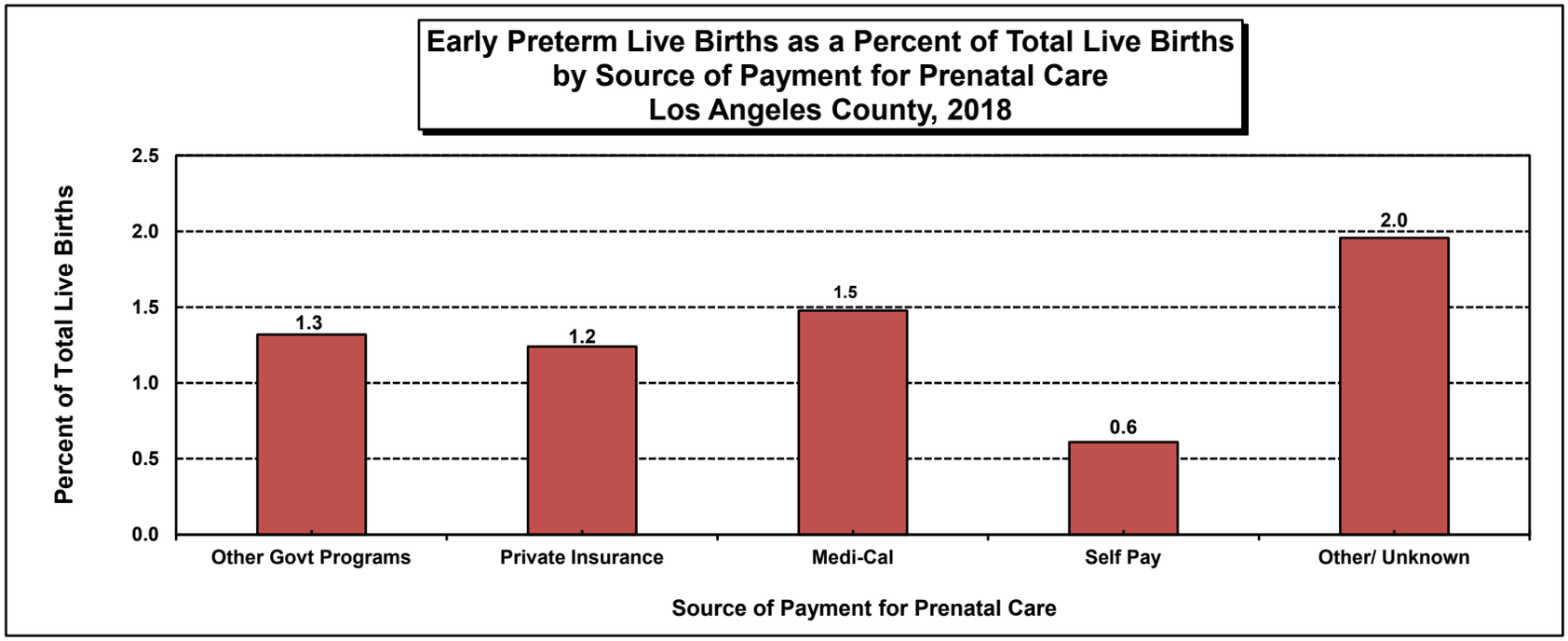
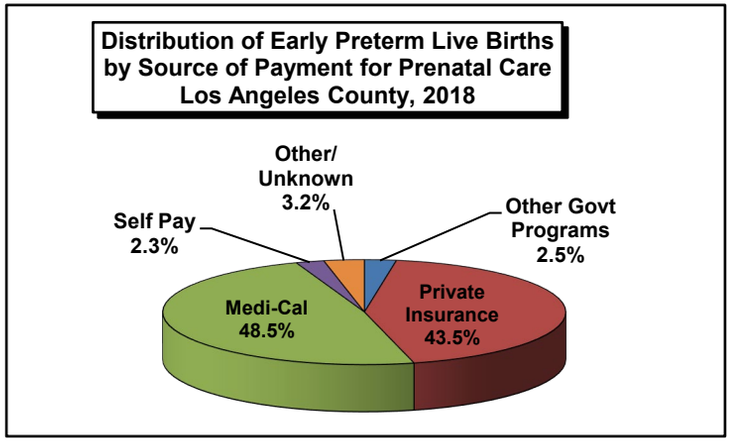


Los Angeles County, 2018					Total Live Births
Source of Payment for Prenatal Care	Early Preterm Live Births		95% Confidence Interval		
	Number	Percent	Lower	Upper	
Other Govt Programs	37	1.3	0.9	1.7	2,804
Private Insurance	632	1.2	1.1	1.3	50,988
Medi-Cal	704	1.5	1.4	1.6	47,667
Self Pay	33	0.6	0.4	0.8	5,410
Other/ Unknown	47	2.0	1.4	2.5	2,401
Total	1,453	1.4	1.3	1.4	109,270



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"Source of Payment for Prenatal Care (PNC)" excludes women who did not receive prenatal care (n=623) and the prenatal care experiences of all women whose pregnancies did not result in a live birth.

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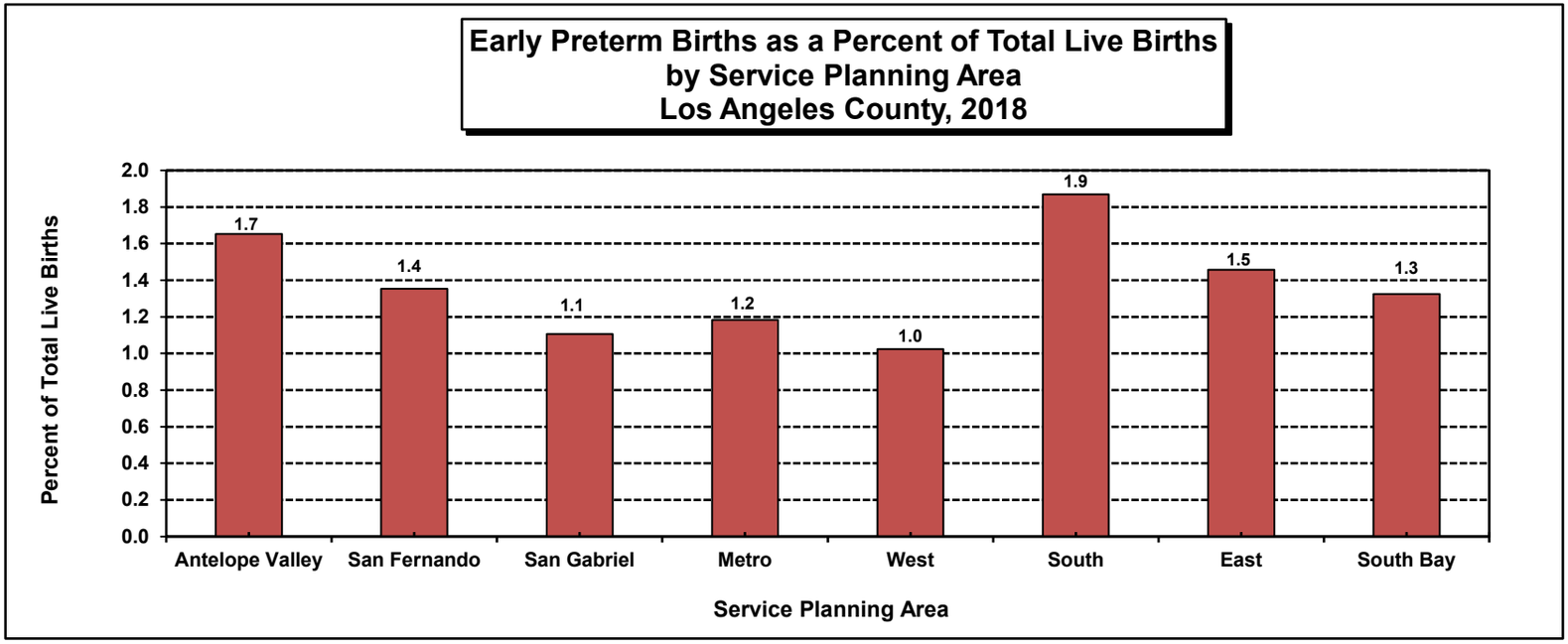
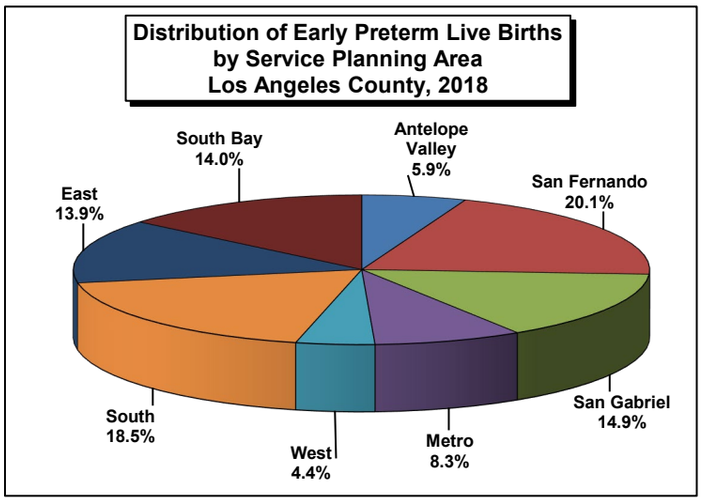


Los Angeles County, 2018					Total Live Births
Service Planning Area (SPA)	SPA		95% Confidence Interval		
	Number	Percent	Lower	Upper	
Antelope Valley	88	1.7	1.3	2.0	5,327
San Fernando	302	1.4	1.2	1.5	22,305
San Gabriel	224	1.1	1.0	1.2	20,259
Metro	125	1.2	1.0	1.4	10,558
West	66	1.0	0.8	1.3	6,449
South	277	1.9	1.7	2.1	14,826
East	208	1.5	1.3	1.7	14,268
South Bay	210	1.3	1.1	1.5	15,847
Unknown	-	N/C	N/C	N/C	54
Total	1,500	1.4	1.3	1.4	109,893



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