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
2008	2,320	1.6	1.5	1.6
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

Denominator: Live Births	
Year	LA County
2008	147,684
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

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

Source: California Department of Public Health, Birth Statistical Master File, 2008-2017

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

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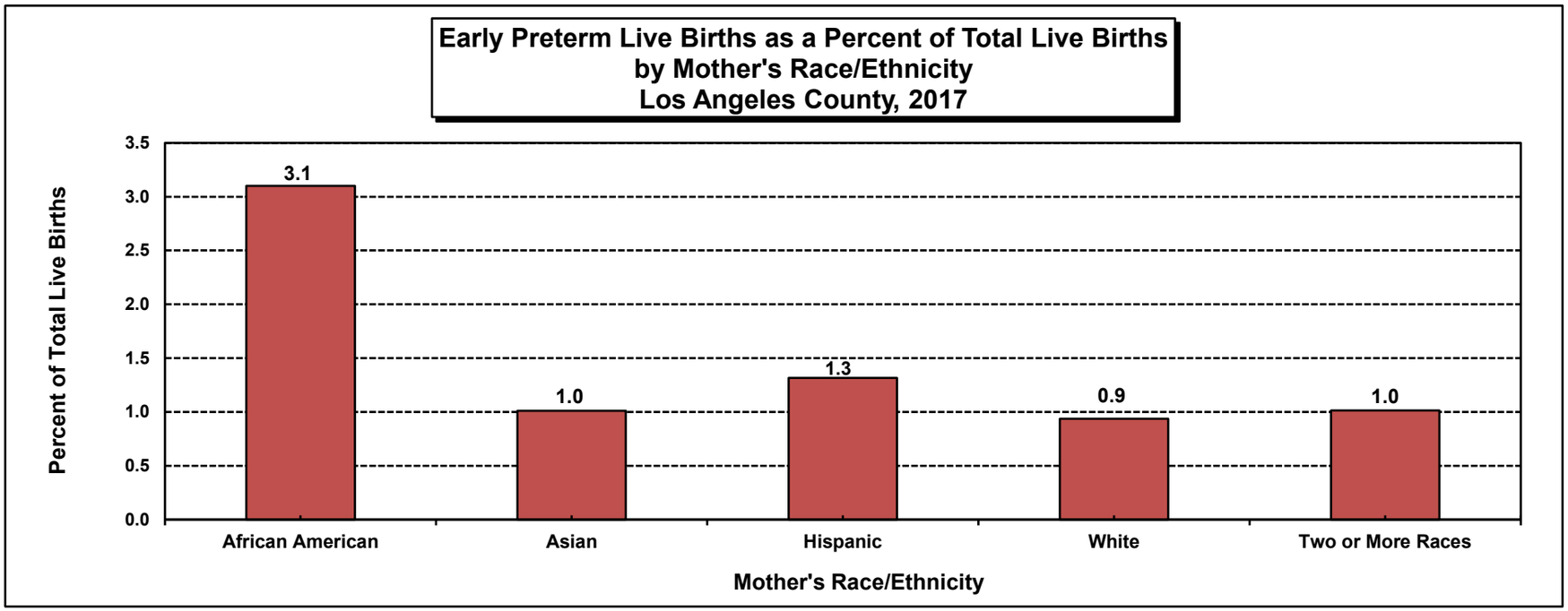
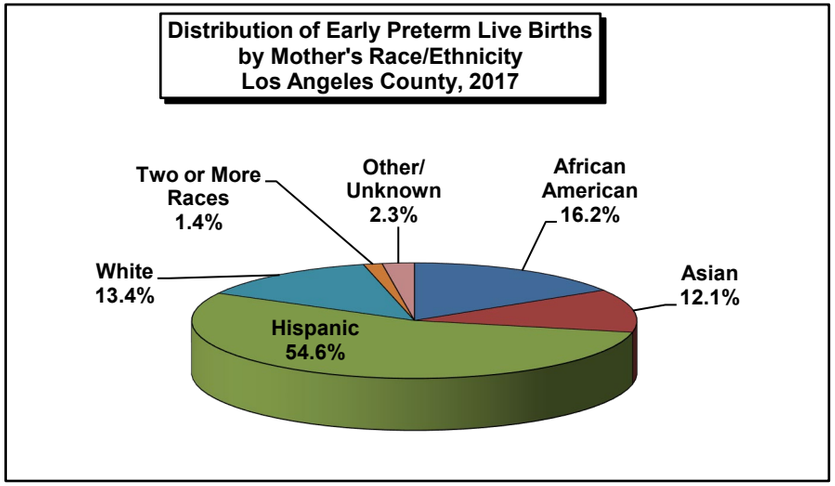
Source: California Department of Public Health, Birth Statistical Master File, 2008-2017



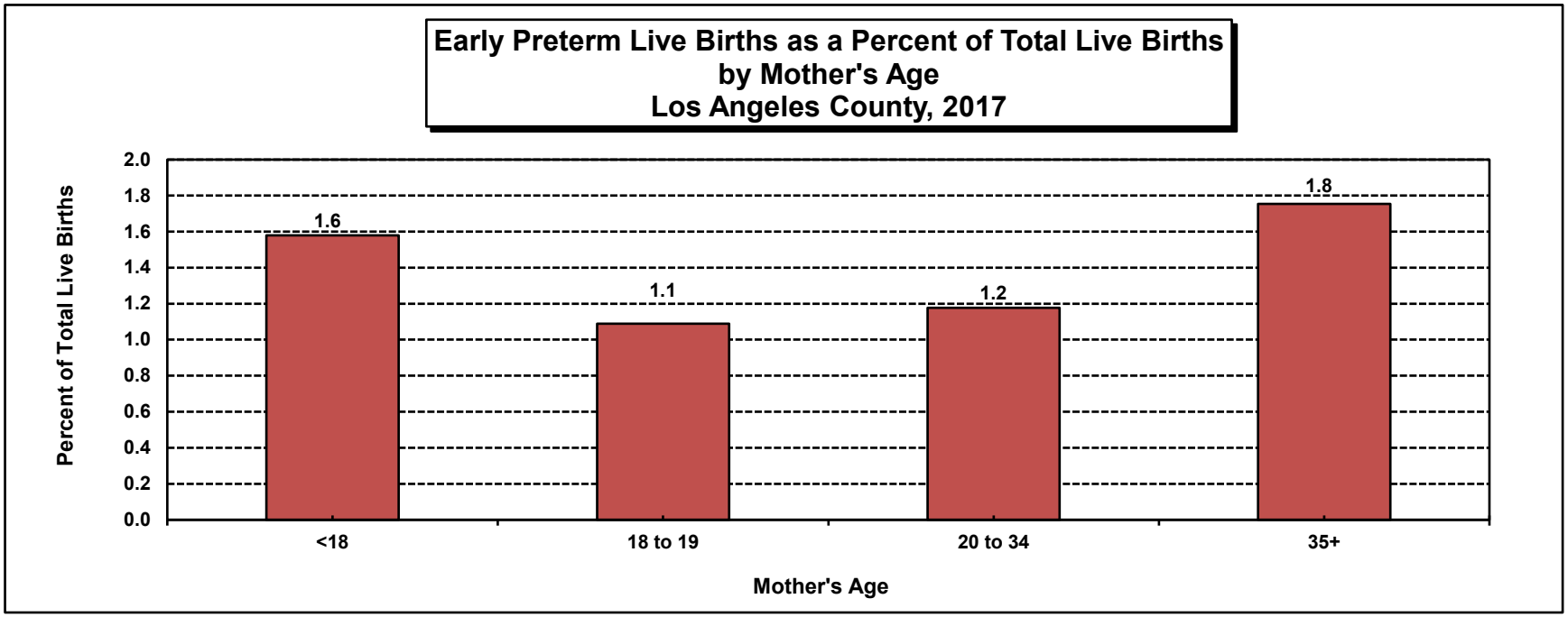
Los Angeles County, 2017					
Mother's Race/Ethnicity	Early Preterm Live Births		95% Confidence Interval		Total Live Births
	Number	Percent	Lower	Upper	
African American	250	3.1	2.7	3.5	8,064
Asian	187	1.0	0.9	1.2	18,490
Hispanic	843	1.3	1.2	1.4	64,091
Native American	<5	N/C	N/C	N/C	160
White	208	0.9	0.8	1.1	22,185
Two or More Races	21	1.0	0.6	1.4	2,069
Pacific Islander	<5	N/C	N/C	N/C	260
Other/ Unknown	36	2.4	1.6	3.1	1,531
Total	1,547	1.3	1.3	1.4	116,850



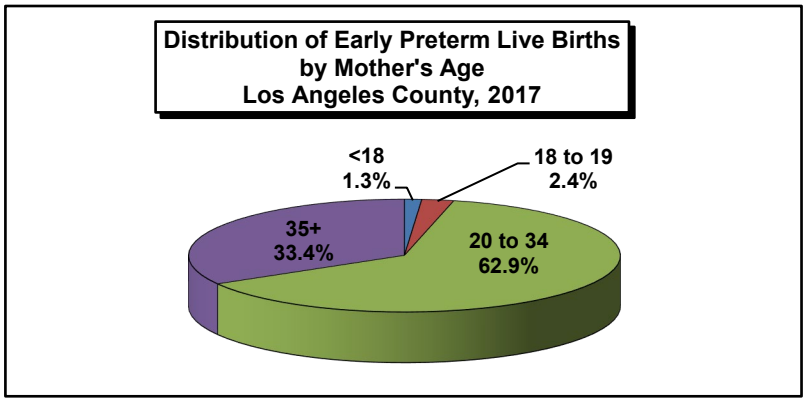
Year 2020 Objective: Reduce early preterm live births to an incidence of no more than 1.5 percent of live births.

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: California Department of Public Health, Birth Statistical Master File, 2017



Los Angeles County, 2017					
Mother's Age	Early Preterm Live Births		95% Confidence Interval		Total Live Births
	Number	Percent	Lower	Upper	
<18	20	1.6	0.9	2.3	1,266
18 to 19	37	1.1	0.7	1.4	3,399
20 to 34	973	1.2	1.1	1.3	82,698
35+	517	1.8	1.6	1.9	29,462
Other/Unknown	<5	N/C	N/C	N/C	25
Total	1,547	1.3	1.3	1.4	116,850



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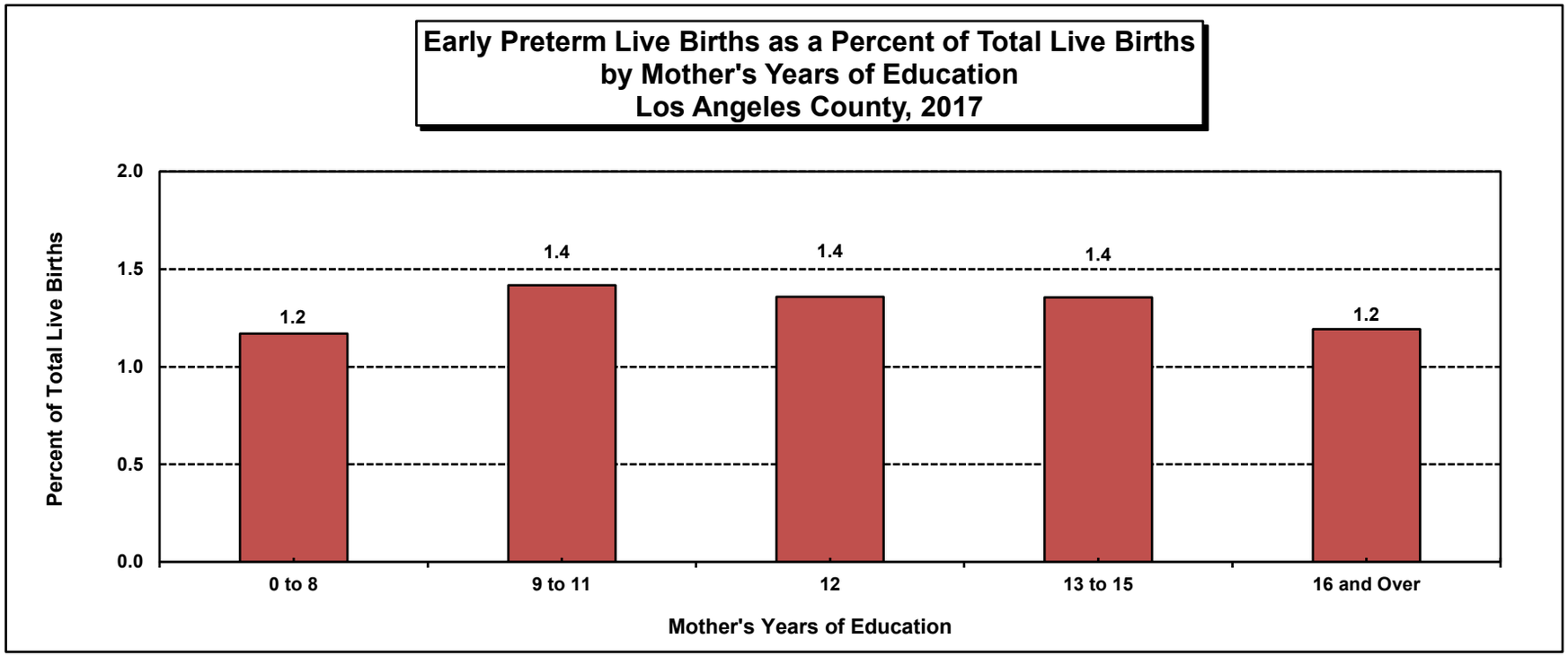
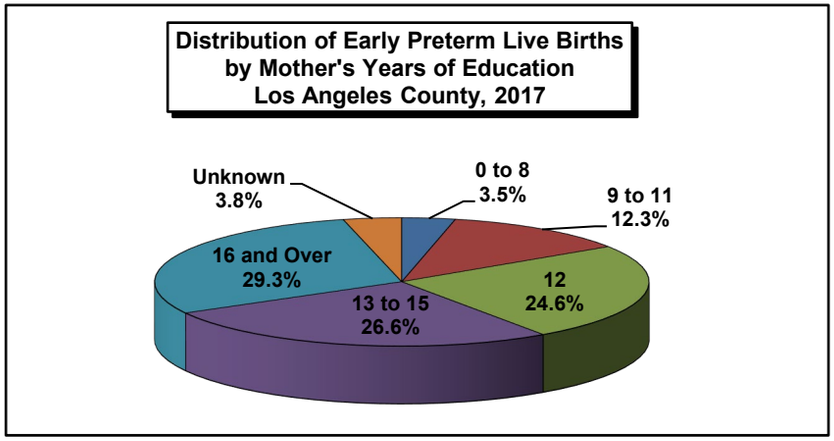


Los Angeles County, 2017					
Mother's Years of Education	Early Preterm Live Births		95% Confidence Interval		Total Live Births
	Number	Percent	Lower	Upper	
0 to 8	54	1.2	0.9	1.5	4,618
9 to 11	190	1.4	1.2	1.6	13,404
12	380	1.4	1.2	1.5	27,984
13 to 15	411	1.4	1.2	1.5	30,342
16 and Over	453	1.2	1.1	1.3	37,972
Unknown	59	2.3	1.7	2.9	2,530
Total	1,547	1.3	1.3	1.4	116,850



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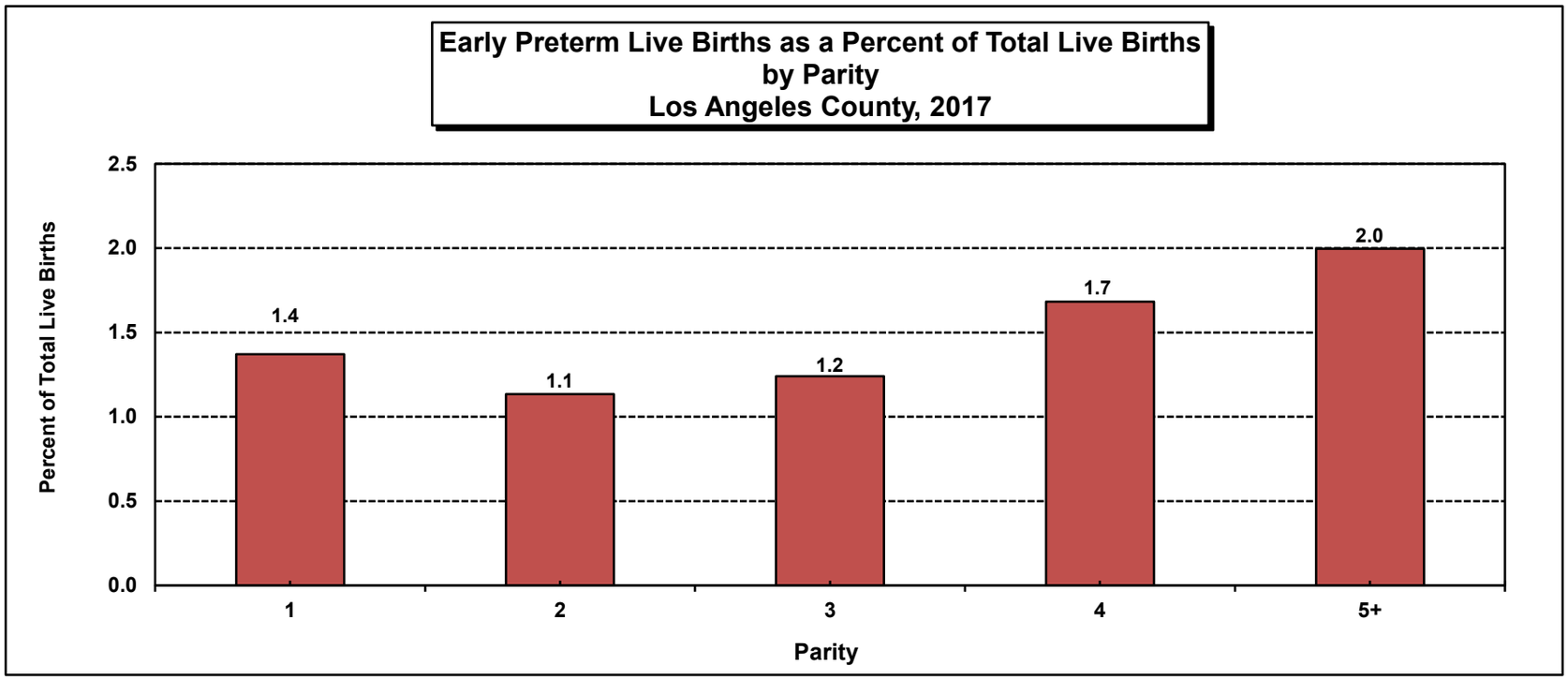
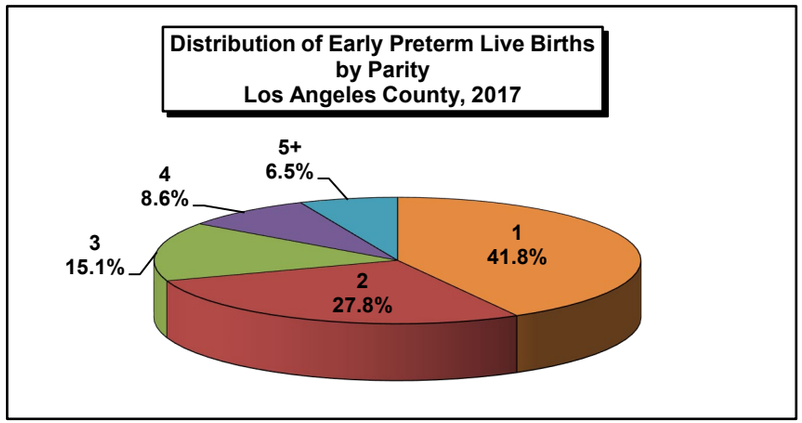


Los Angeles County, 2017					
Parity	Early Preterm Live Births		95% Confidence Interval		Total Live Births
	Number	Percent	Lower	Upper	
1	646	1.4	1.3	1.5	47,110
2	430	1.1	1.0	1.2	37,915
3	233	1.2	1.1	1.4	18,776
4	133	1.7	1.4	2.0	7,905
5+	101	2.0	1.6	2.4	5,061
Unknown	<5	N/C	N/C	N/C	83
Total	1,547	1.3	1.3	1.4	116,850

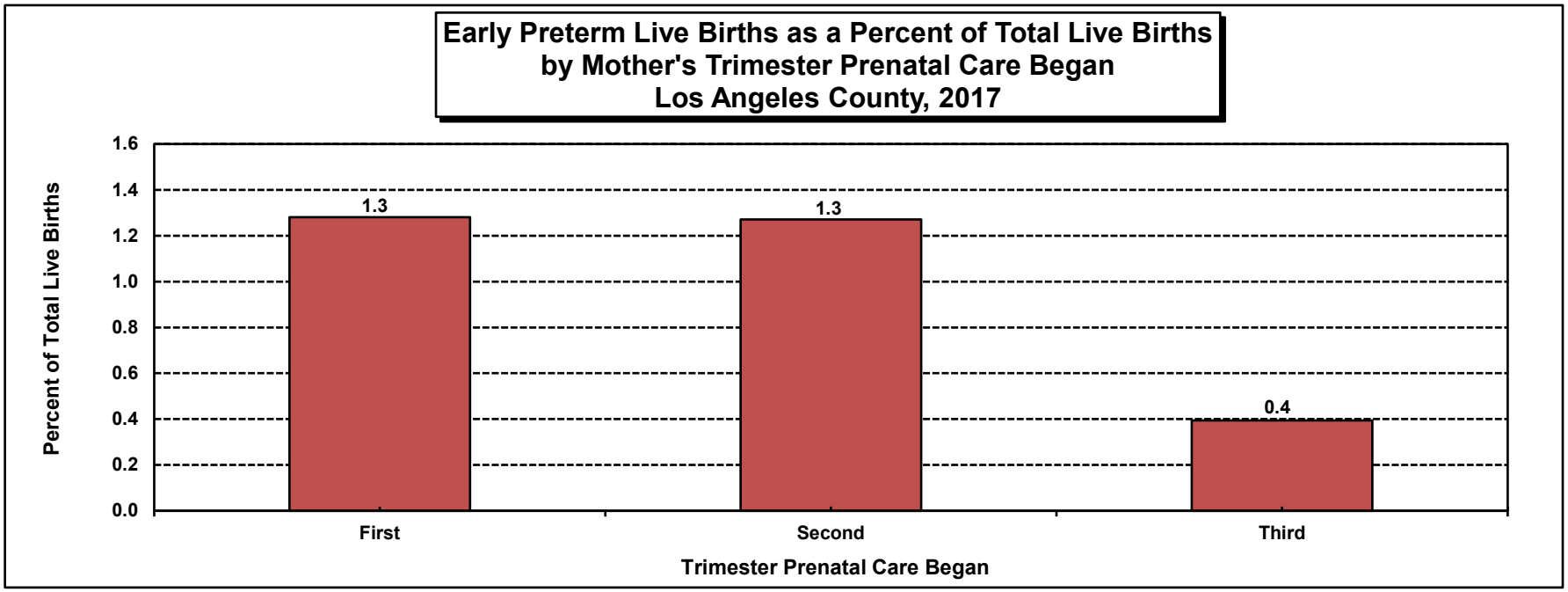


Year 2020 Objective: Reduce early preterm live births to an incidence of no more than 1.5 percent of live births.

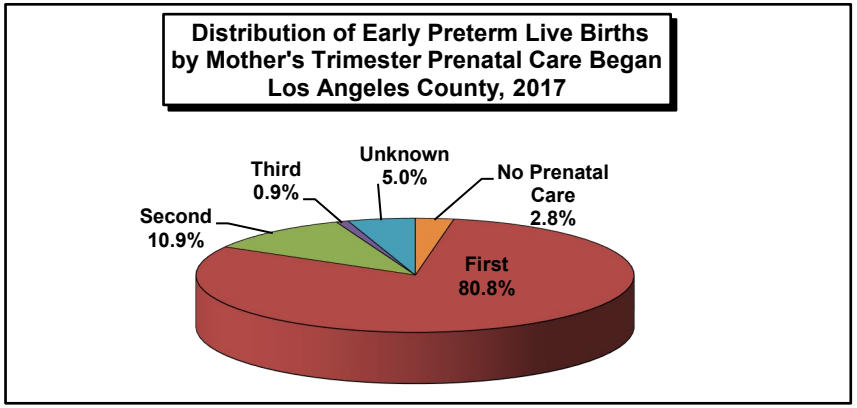
Notes: "Early Preterm Live Births" is defined as live births occurring at less than 32 weeks of gestation. Gestation calculated based on obstetrical estimate.

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

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



Los Angeles County, 2017					
Mother's Trimester Prenatal Care Began	Early Preterm Live Births		95% Confidence Interval		Total Live Births
	Number	Percent	Lower	Upper	
No Prenatal Care	44	6.6	4.7	8.5	665
First	1,250	1.3	1.2	1.4	97,572
Second	169	1.3	1.1	1.5	13,302
Third	14	0.4	0.2	0.6	3,555
Unknown	70	4.0	3.1	4.9	1,756
Total	1,547	1.3	1.3	1.4	116,850



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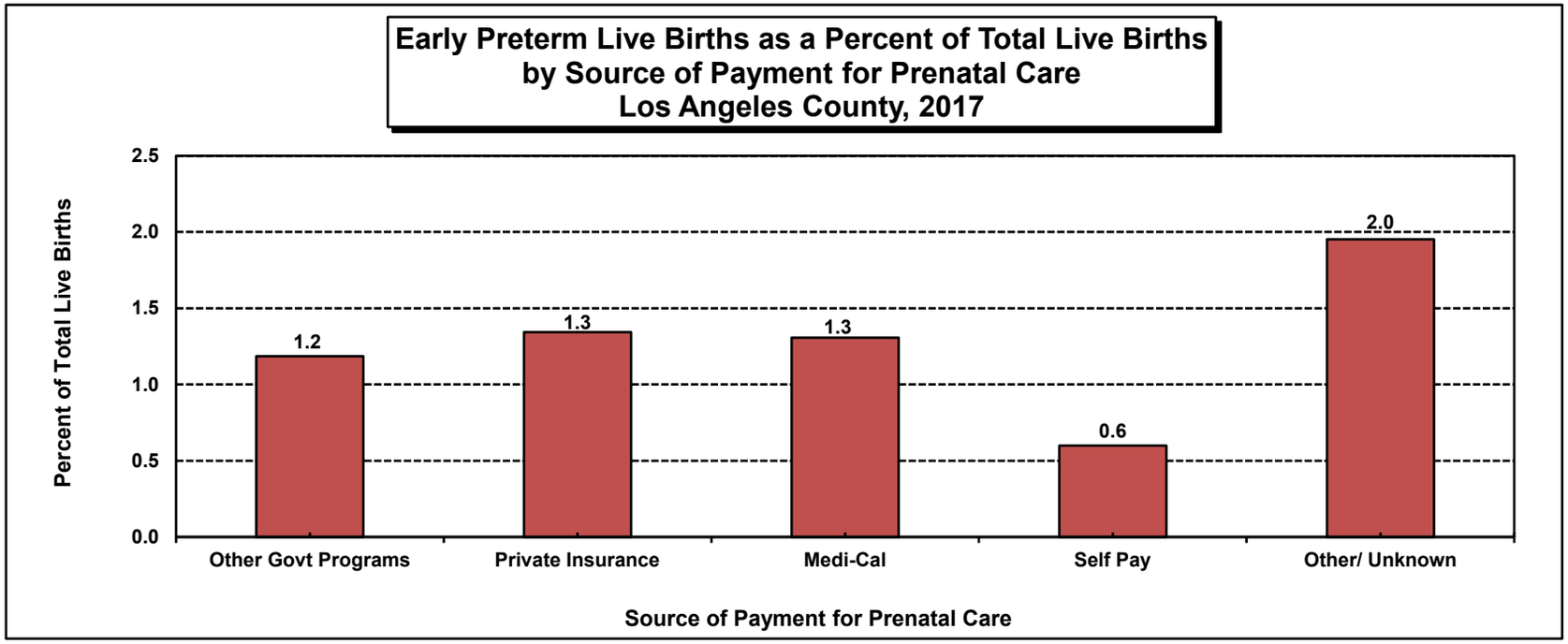
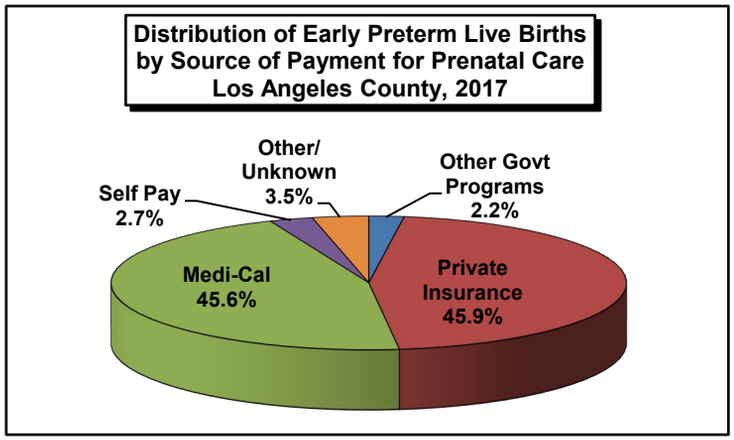


Los Angeles County, 2017					Total Live Births
Source of Payment for Prenatal Care	Early Preterm Live Births		95% Confidence Interval		
	Number	Percent	Lower	Upper	
Other Govt Programs	33	1.2	0.8	1.6	2,785
Private Insurance	690	1.3	1.2	1.4	51,330
Medi-Cal	686	1.3	1.2	1.4	52,500
Self Pay	41	0.6	0.4	0.8	6,855
Other/ Unknown	53	2.0	1.4	2.5	2,715
Total	1,503	1.3	1.3	1.4	116,185



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Notes: Gestation calculated based on obstetrical estimate.

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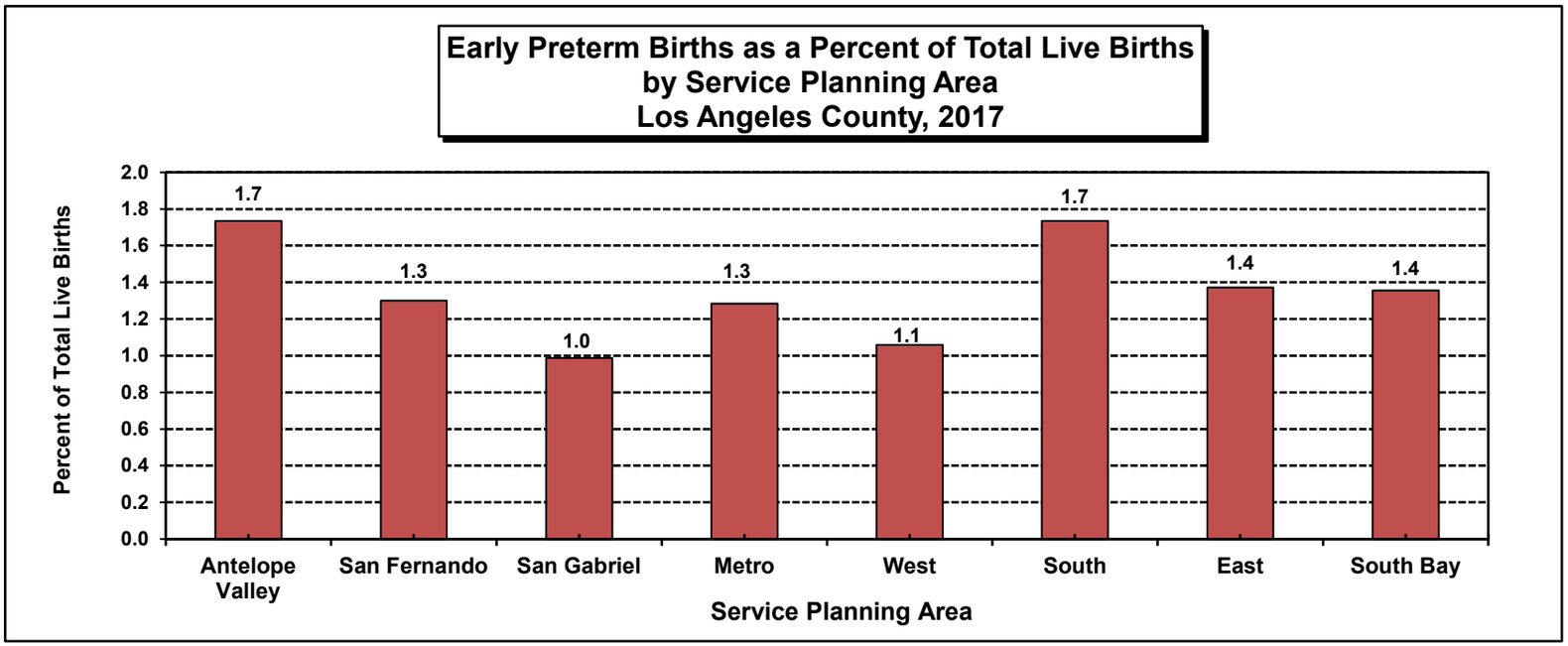
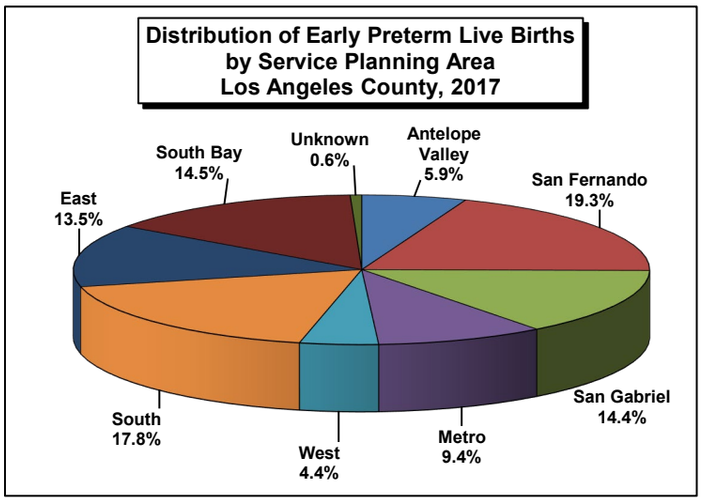
"Source of Payment for Prenatal Care (PNC)" excludes women who did not receive prenatal care (n=665) and the prenatal care experiences of all women whose pregnancies did not result in a live birth.

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



Los Angeles County, 2017					
Service Planning Area (SPA)	SPA		95% Confidence Interval		Total Live Births
	Number	Percent	Lower	Upper	
Antelope Valley	91	1.7	1.4	2.1	5,246
San Fernando	299	1.3	1.2	1.4	23,004
San Gabriel	223	1.0	0.9	1.1	22,593
Metro	146	1.3	1.1	1.5	11,370
West	68	1.1	0.8	1.3	6,423
South	276	1.7	1.5	1.9	15,905
East	209	1.4	1.2	1.6	15,240
South Bay	225	1.4	1.2	1.5	16,594
Unknown	10	2.1	0.8	3.4	475
Total	1,547	1.3	1.3	1.4	116,850



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