

Cesarean Births

Cesarean Live Births

INDICATOR: Cesarean Births

DEFINITION: The proportion of live births delivered via Cesarean section (c-section)

NUMERATOR: The number of Cesarean live births, by place of residence, in a calendar year

DENOMINATOR: The total number of live births, by place of residence, in a calendar year

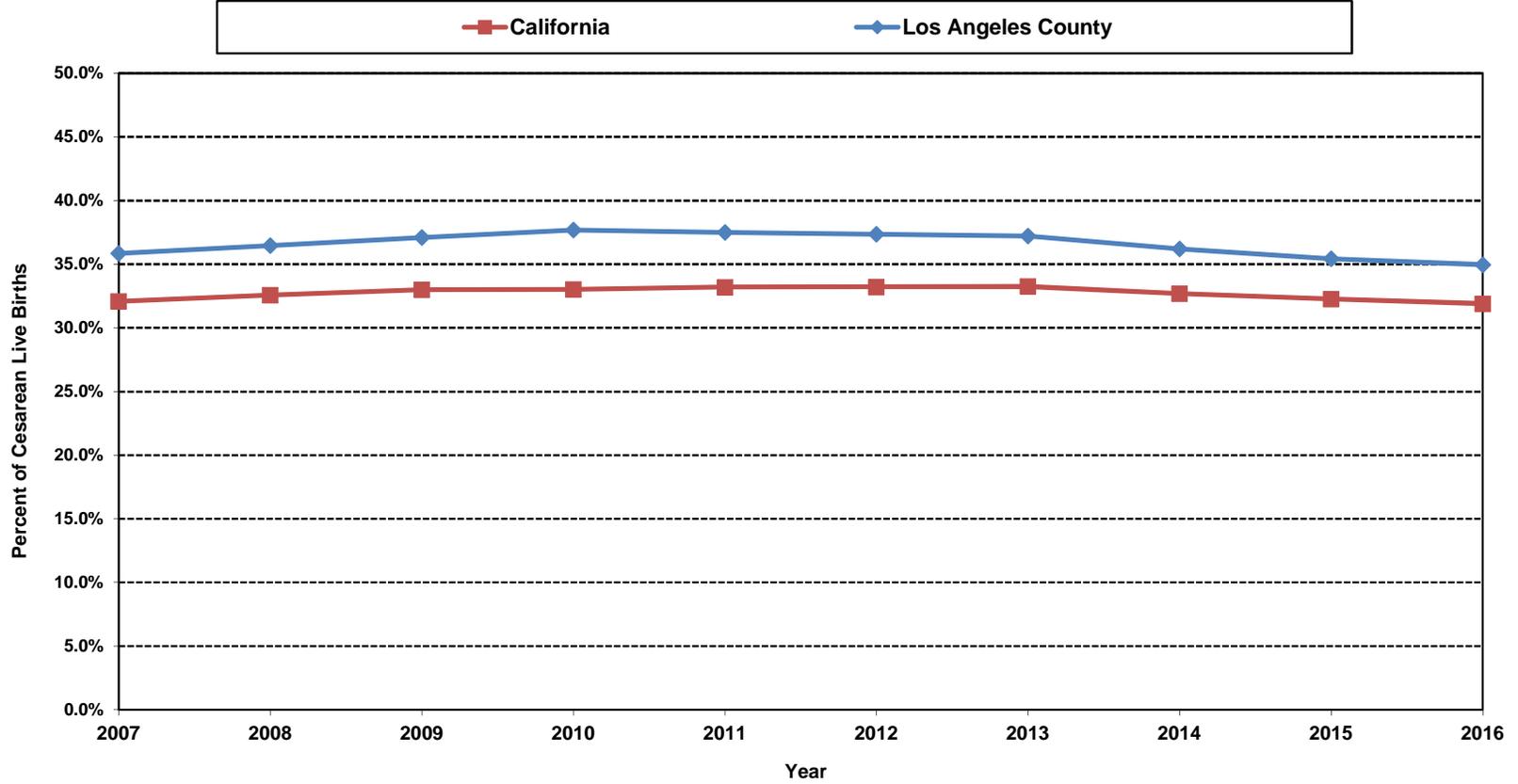
RISK FACTORS: Older maternal age, previous c-section, pregnancy complications, sexually transmitted disease, obesity, diabetes, extreme neonatal birth weight

Year	California				Los Angeles County			
	Total C-Section Live Births		95% Confidence Interval		Total C-Section Live Births		95% Confidence Interval	
	Number	Percent	Lower	Upper	Number	Percent	Lower	Upper
2007	181,574	32.1%	27.4%	36.7%	54,431	35.9%	26.3%	34.5%
2008	179,626	32.6%	27.8%	37.3%	53,838	36.5%	26.7%	35.1%
2009	173,878	33.0%	28.1%	37.9%	51,813	37.1%	27.0%	35.6%
2010	168,379	33.0%	28.0%	38.0%	50,186	37.7%	27.3%	36.1%
2011	166,661	33.2%	28.2%	38.2%	48,864	37.5%	27.0%	35.9%
2012	167,365	33.2%	28.2%	38.3%	49,197	37.4%	26.9%	35.8%
2013	164,375	33.2%	28.2%	38.3%	47,834	37.2%	26.7%	35.6%
2014	164,472	32.7%	27.7%	37.7%	47,106	36.2%	25.9%	34.6%
2015	158,646	32.3%	27.2%	37.3%	44,109	35.4%	25.0%	33.8%
2016	155,952	31.9%	26.9%	36.9%	42,984	35.0%	24.5%	33.3%

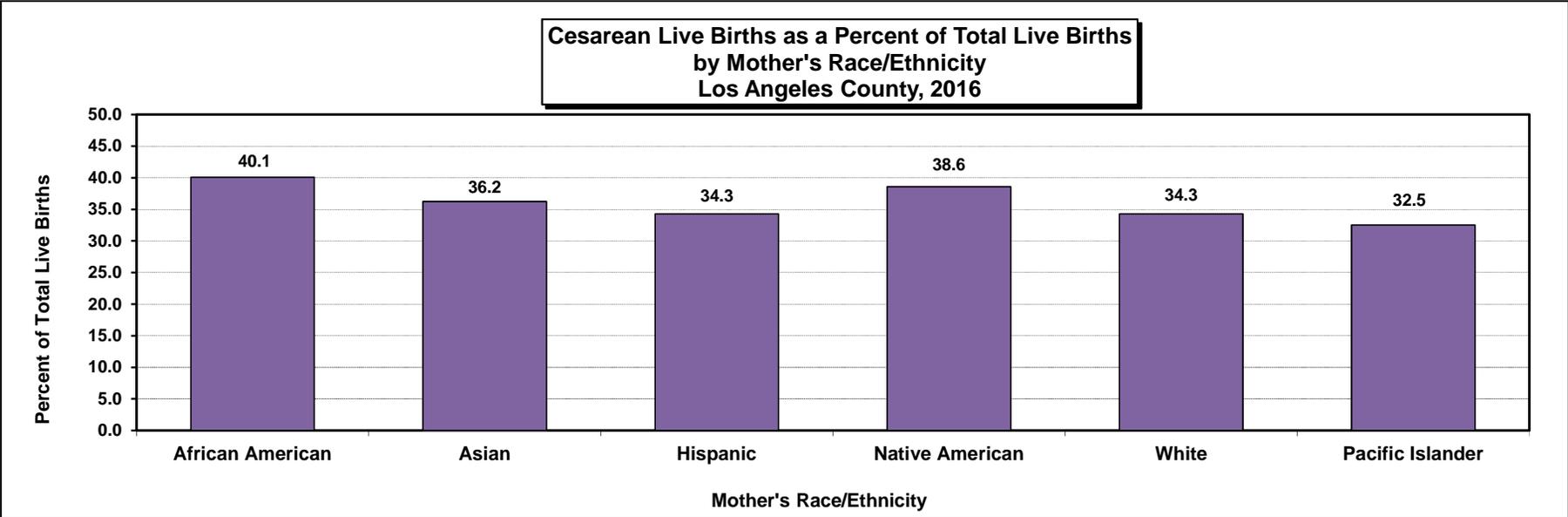
Denominator: Total Live Births		
Year	California	LA County
2007	566,137	151,813
2008	551,567	147,684
2009	526,774	139,679
2010	509,979	133,160
2011	502,023	130,313
2012	503,788	131,697
2013	494,392	128,523
2014	502,973	130,150
2015	491,748	124,507
2016	488,827	122,941

Source: California Department of Public Health, Birth Statistical Master Files, 2007-2016.

**Percent of Cesarean Live Births
California vs. Los Angeles County, 2007-2016**

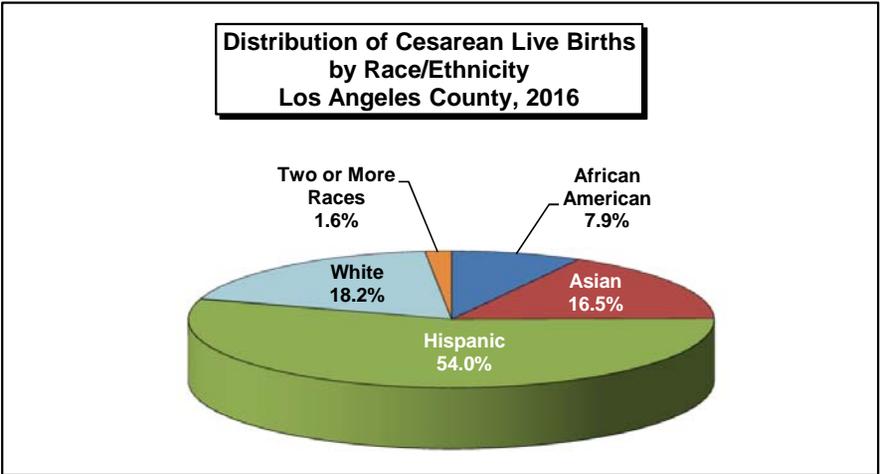


Sources: California Department of Public Health, Birth Statistical Master Files, 2007-2016.



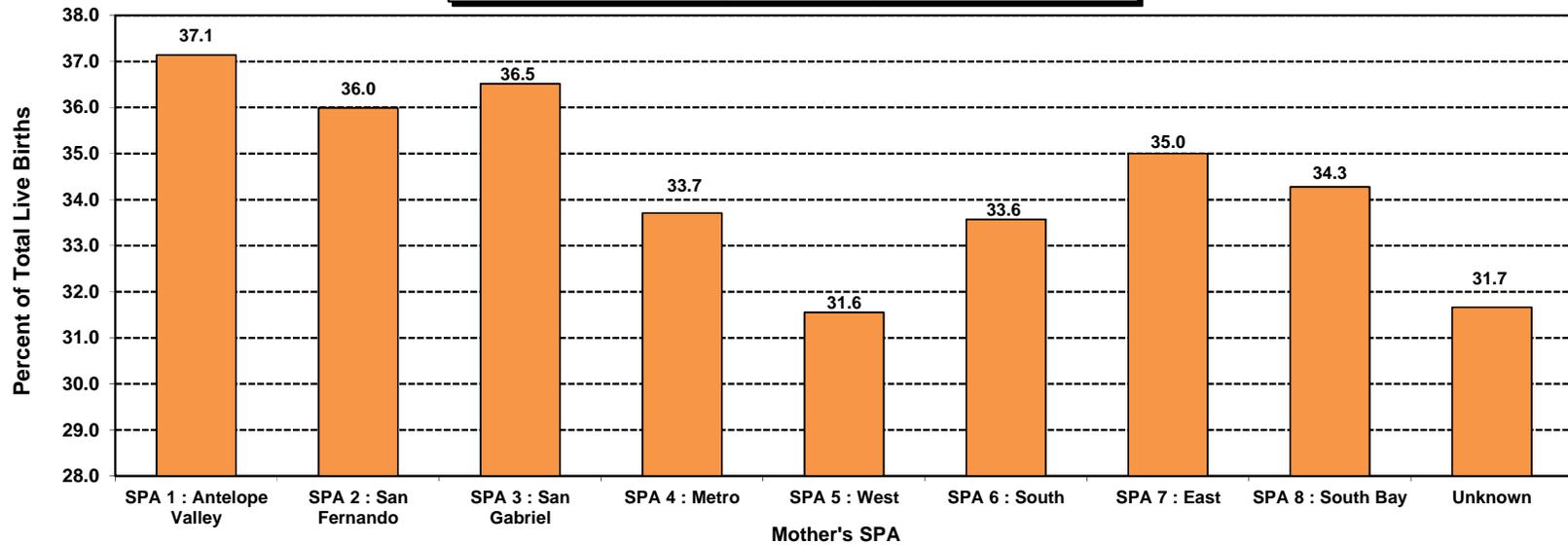
Mother's Race/Ethnicity	Los Angeles County, 2016			
	Cesarean Births		95% Confidence Interval	
	Number	Percent	Lower	Upper
African American	3,376	40.1	39.0	41.1
Asian	7,104	36.2	35.6	36.9
Hispanic	23,195	34.3	33.9	34.6
Native American	54	38.6	30.5	46.6
White	7,814	34.3	33.6	34.9
Two or More Races	661	33.0	30.9	35.0
Other/Unknown	689	34.3	32.2	36.4
Pacific Islander	91	32.5	27.0	38.0
Total	42,984	35.4	32.8	37.9

Total Live Births
8,425
19,608
67,666
140
22,808
2,005
2,009
280
122,941



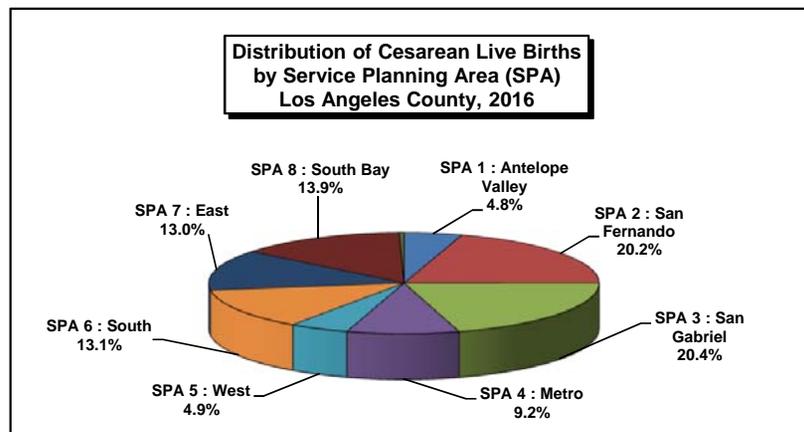
Sources: California Department of Public Health, Birth Statistical Master Files, 2016.

**Cesarean Live Births as a Percent of Total Live Births
by Service Planning Area (SPA)
Los Angeles County, 2016**



Los Angeles County, 2016				
Service Planning Area (SPA)	Cesarean Births		95% Confidence Interval	
	Number	Percent	Lower	Upper
SPA 1 : Antelope Valley	2,063	37.1	35.9	38.4
SPA 2 : San Fernando	8,697	36.0	35.4	36.6
SPA 3 : San Gabriel	8,781	36.5	35.9	37.1
SPA 4 : Metro	3,974	33.7	32.9	34.6
SPA 5 : West	2,107	31.6	30.4	32.7
SPA 6 : South	5,635	33.6	32.9	34.3
SPA 7 : East	5,579	35.0	34.3	35.7
SPA 8 : South Bay	5,971	34.3	33.6	35.0
Unknown	177	31.7	27.8	35.5
Total	42,984	34.4	33.2	35.5

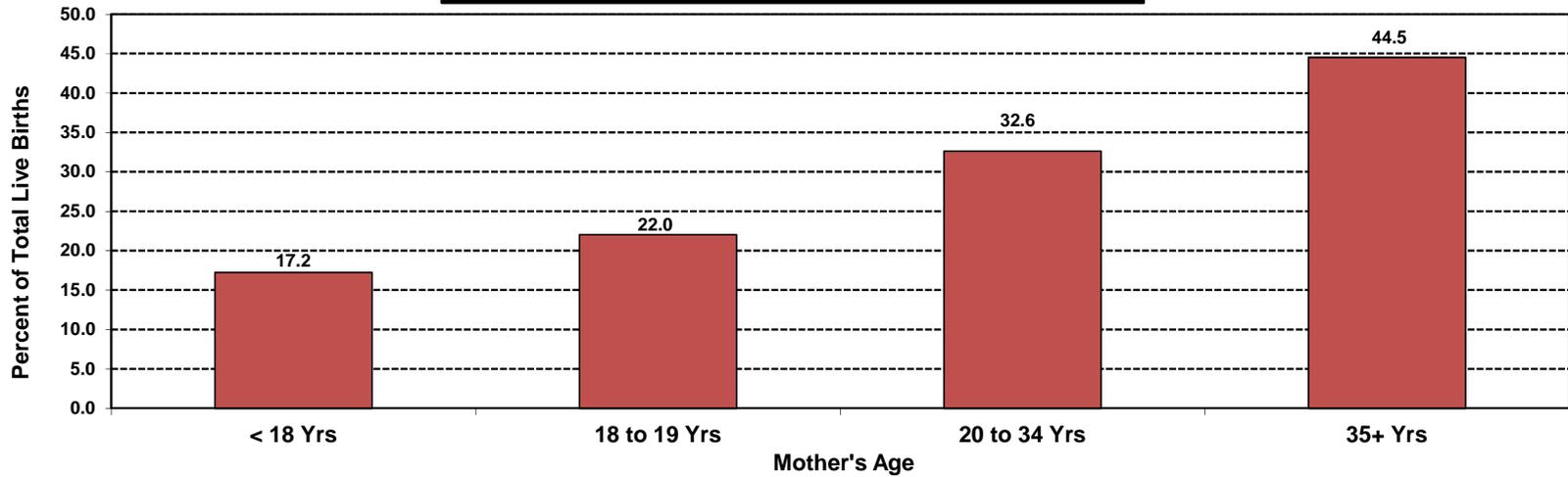
Total Live Births
5,555
24,165
24,048
11,789
6,678
16,786
15,941
17,420
559
122,941



Note: SPA 8 includes Catalina Island.

Sources: California Department of Public Health, Birth Statistical Master Files, 2016.

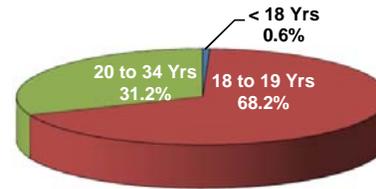
**Cesarean Live Births as a Percent of Total Live Births
by Mother's Age
Los Angeles County, 2016**



Los Angeles County, 2016				
Mother's Age	Cesarean Births		95% Confidence Interval	
	Number	Percent	Lower	Upper
< 18 Yrs	262	17.2	15.3	19.1
18 to 19 Yrs	843	22.0	20.7	23.3
20 to 34 Yrs	28,733	32.6	32.3	32.9
35+ Yrs	13,145	44.5	44.0	45.1
Unknown	<5	N/C	N/C	N/C
Total	42,983	35.0	34.7	35.2

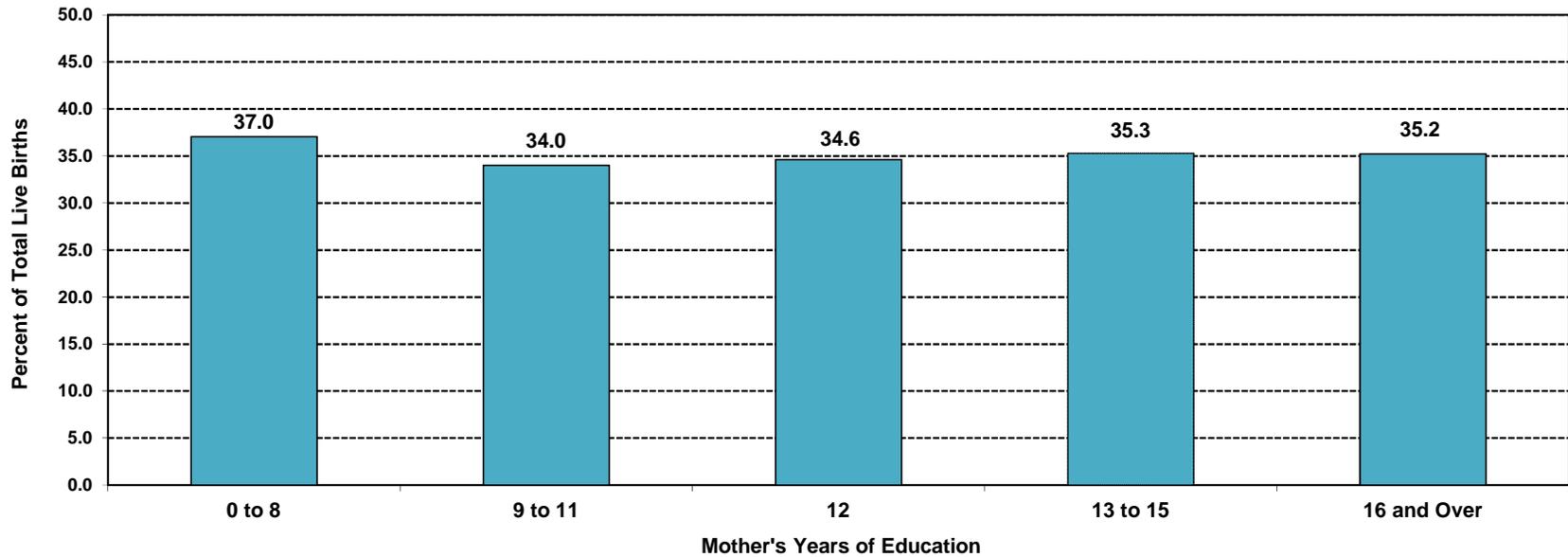
Total Live Births
1,521
3,826
88,056
29,522
16
122,941

**Distribution of Cesarean Live Births
by Mother's Age
Los Angeles County, 2016**



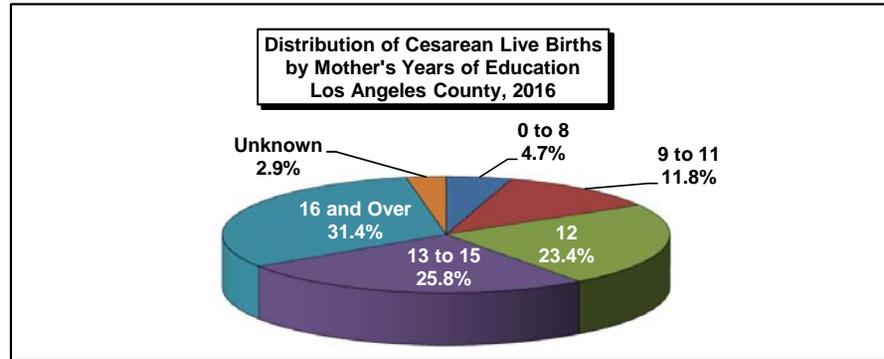
Source: California Department of Public Health, Birth Statistical Master Files, 2016.

**Cesarean Live Births as a Percent of Total Live Births
by Mother's Years of Education
Los Angeles County, 2016**



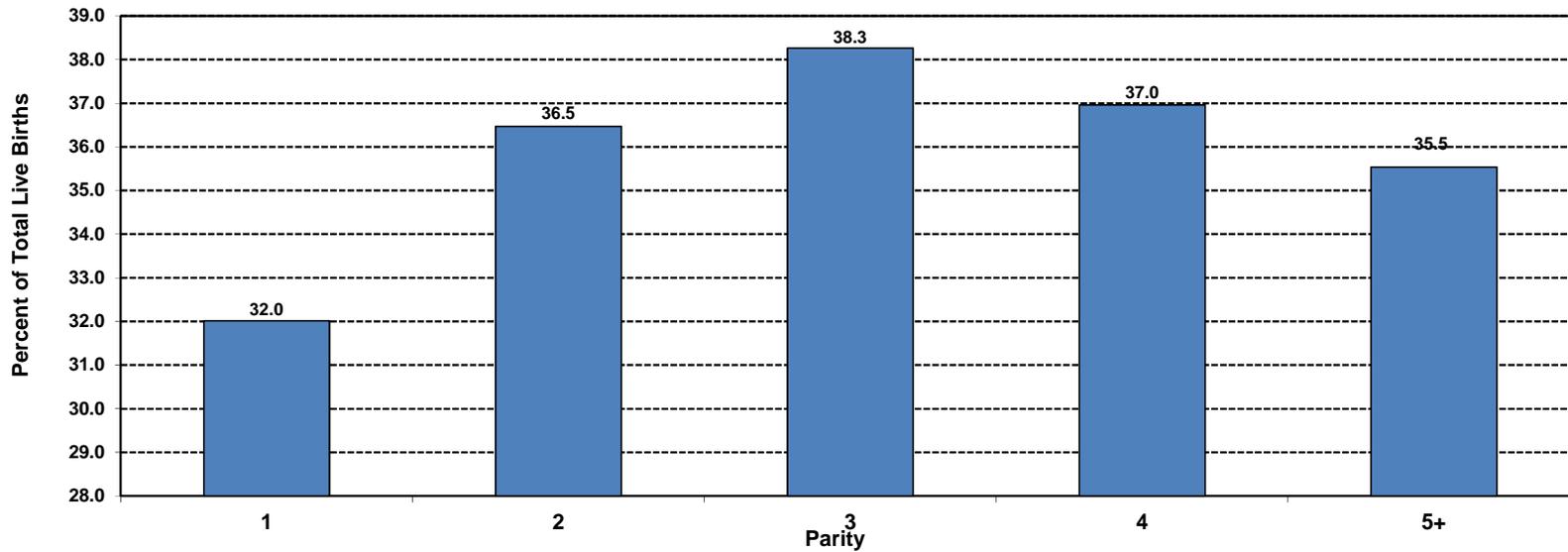
Los Angeles County, 2016				
Mother's Years of Education	Cesarean Births		95% Confidence Interval	
	Number	Percent	Lower	Upper
0 to 8	2,041	37.0	35.8	38.3
9 to 11	5,068	34.0	33.2	34.8
12	10,049	34.6	34.1	35.2
13 to 15	11,087	35.3	34.8	35.8
16 and Over	13,497	35.2	34.7	35.7
Unknown	1,242	33.2	31.7	34.7
Total	42,984	34.9	34.0	35.7

Total Live Births
5,509
14,905
29,035
31,421
38,326
3,745
122,941



Note: This analysis did not adjust for teen mothers who may not have been old enough to have reached a higher categorical education level.
Source: California Department of Public Health, Birth Statistical Master Files, 2016.

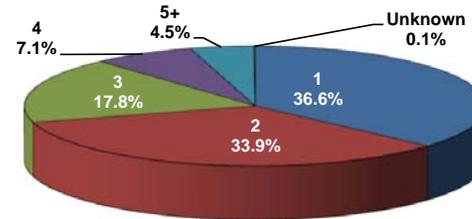
**Cesarean Live Births as Percent of Total Live Births
by Parity
Los Angeles County, 2016**



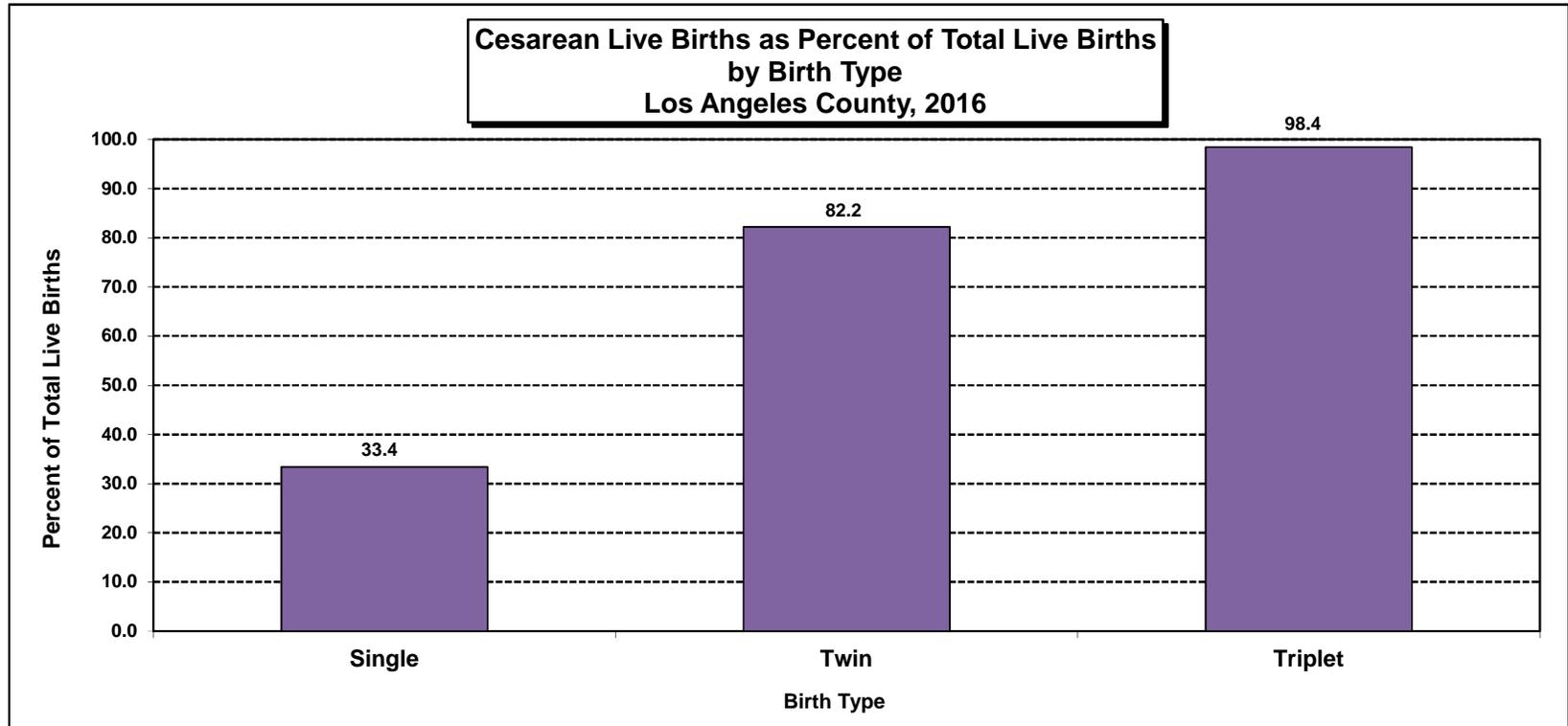
Los Angeles County, 2016				
Parity	Cesarean Births		95% Confidence Interval	
	Number	Percent	Lower	Upper
1	15,752	32.0	31.6	32.4
2	14,562	36.5	36.0	36.9
3	7,632	38.3	37.6	38.9
4	3,071	37.0	35.9	38.0
5+	1,919	35.5	34.3	36.8
Unknown	48	31.8	24.4	39.2
Total	42,984	35.2	34.9	35.4

Total Live Births
49,205
39,931
19,945
8,309
5,400
151
122,941

**Distribution of Cesarean Live Births
by Parity
Los Angeles County, 2016**

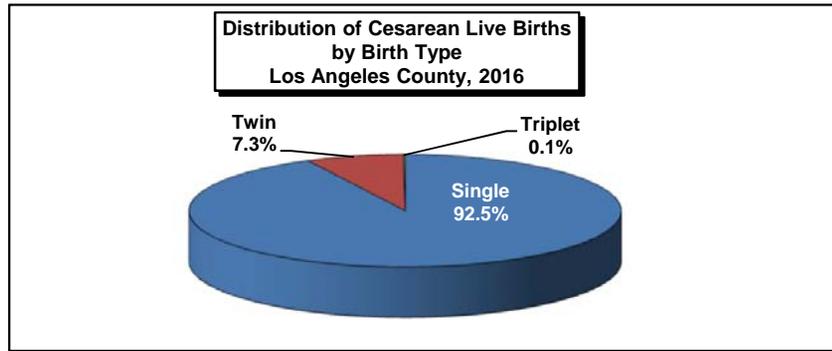


Note: Parity is defined as the number of pregnancies resulting in live births to a woman.
Source: California Department of Public Health, Birth Statistical Master Files, 2016.

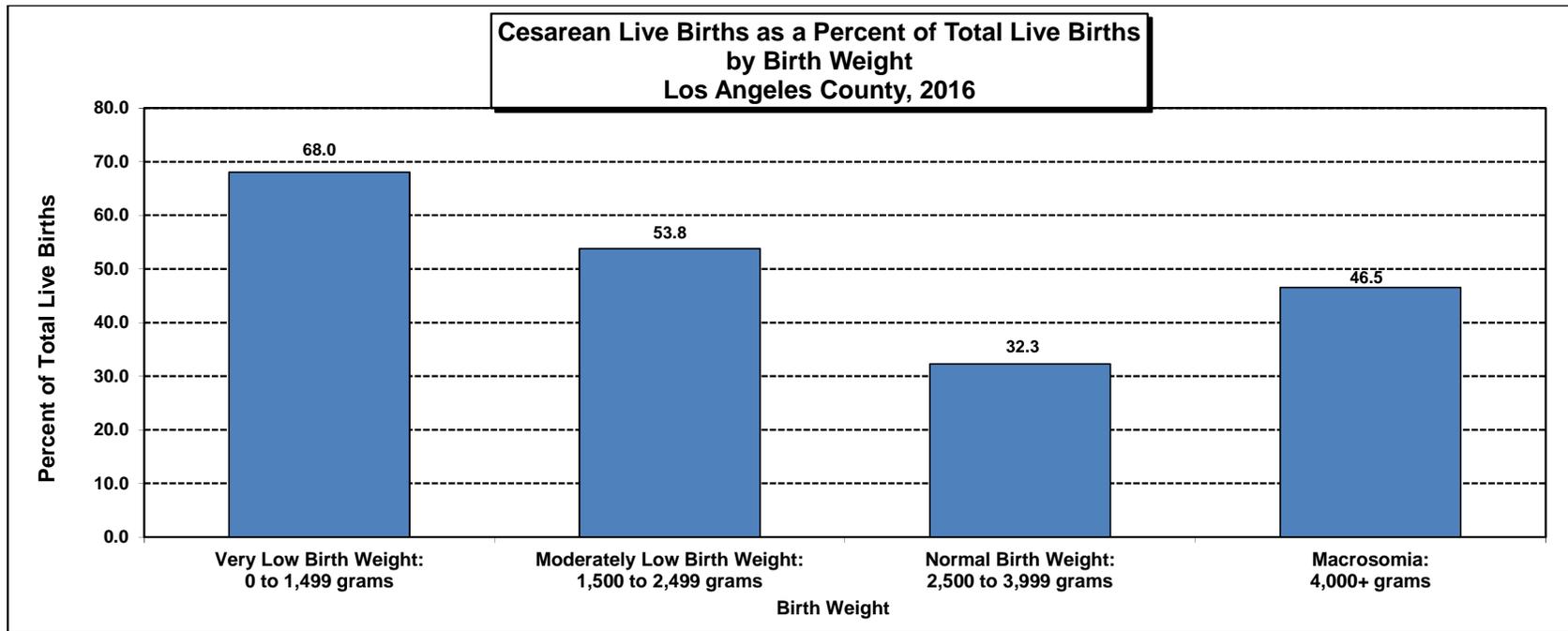


Los Angeles County, 2016				
Birth Type	Cesarean Births		95% Confidence Interval	
	Number	Percent	Lower	Upper
Single	39,764	33.4	33.1	33.7
Twin	3,149	82.2	81.0	83.4
Triplet	62	98.4	95.3	101.5
Quadruplet	<5	N/C	N/C	N/C
Quintuplet	<5	N/C	N/C	N/C
Total	42,984	35.0	34.7	35.2

Total Live Births
119,039
3,831
63
<5
<5
122,941

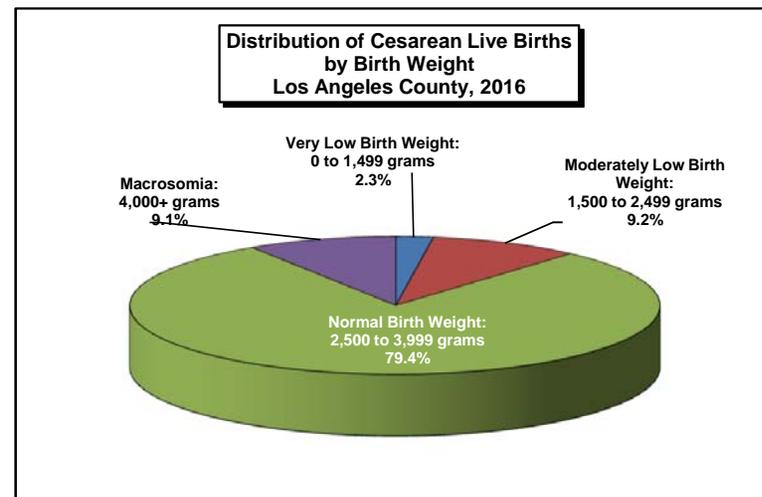


Note: Numbers fewer than 5 are shown as "<5". Rates are not calculated (N/C) if number is fewer than five.
Sources: California Department of Public Health, Birth Statistical Master Files, 2016.



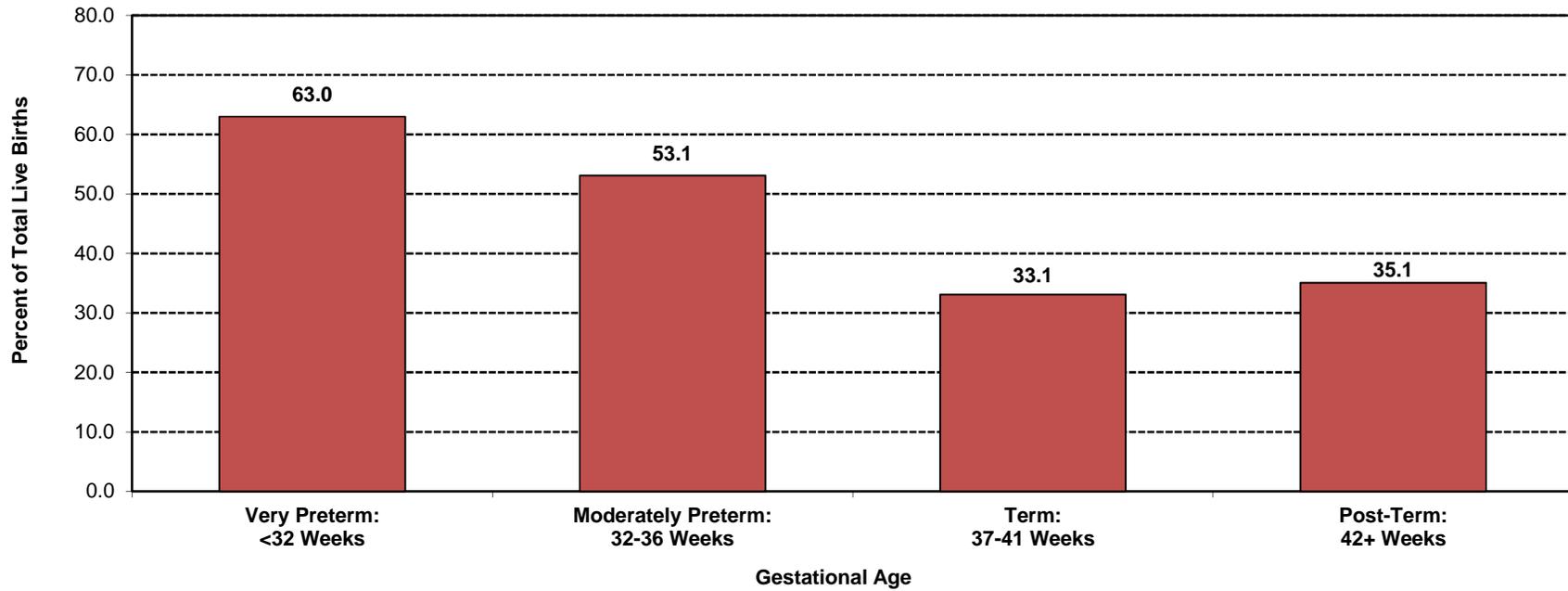
Los Angeles County, 2016				
Birth Weight	Cesarean Births		95% Confidence Interval	
	Number	Percent	Lower	Upper
Very Low Birth Weight: 0 to 1,499 grams	973	68.0	65.6	70.5
Moderately Low Birth Weight: 1,500 to 2,499 grams	3,955	53.8	52.6	54.9
Normal Birth Weight: 2,500 to 3,999 grams	34,145	32.3	32.0	32.6
Macrosomia: 4,000+ grams	3,910	46.5	45.5	47.6
Unknown	<5	N/C	N/C	N/C
Total	42,984	50.2	48.9	51.4

Total Live Births
1,430
7,353
105,749
8,402
7
122,941



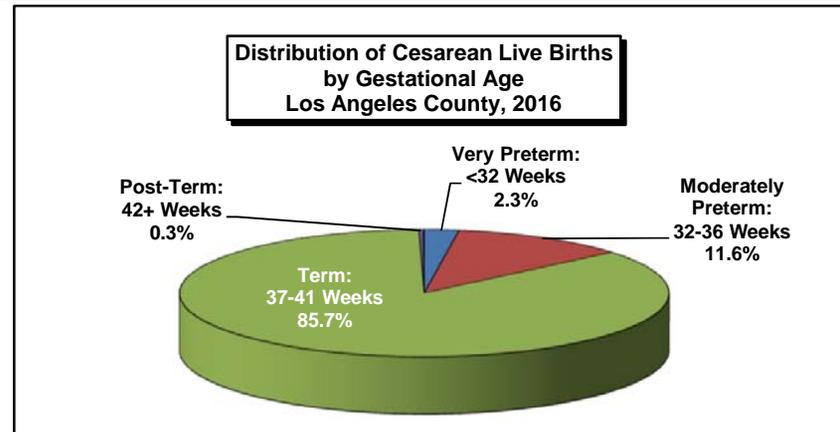
Note: Numbers fewer than 5 are shown as "<5". Rates are not calculated (N/C) if number is fewer than five.
Sources: California Department of Public Health, Birth Statistical Master Files, 2016.

**Cesarean Live Births as Percent of Total Live Births
by Gestational Age
Los Angeles County, 2016**



Los Angeles County, 2016				
Gestational Age	Cesarean Births		95% Confidence Interval	
	Number	Percent	Lower	Upper
Very Preterm: <32 Weeks	982	63.0	60.6	65.4
Moderately Preterm: 32-36 Weeks	4,999	53.1	52.1	54.1
Term: 37-41 Weeks	36,856	33.1	32.8	33.3
Post-Term: 42+ Weeks	122	35.1	30.0	40.1
Unknown	25	20.3	13.2	27.4
Total	42,984	40.9	37.7	44.1

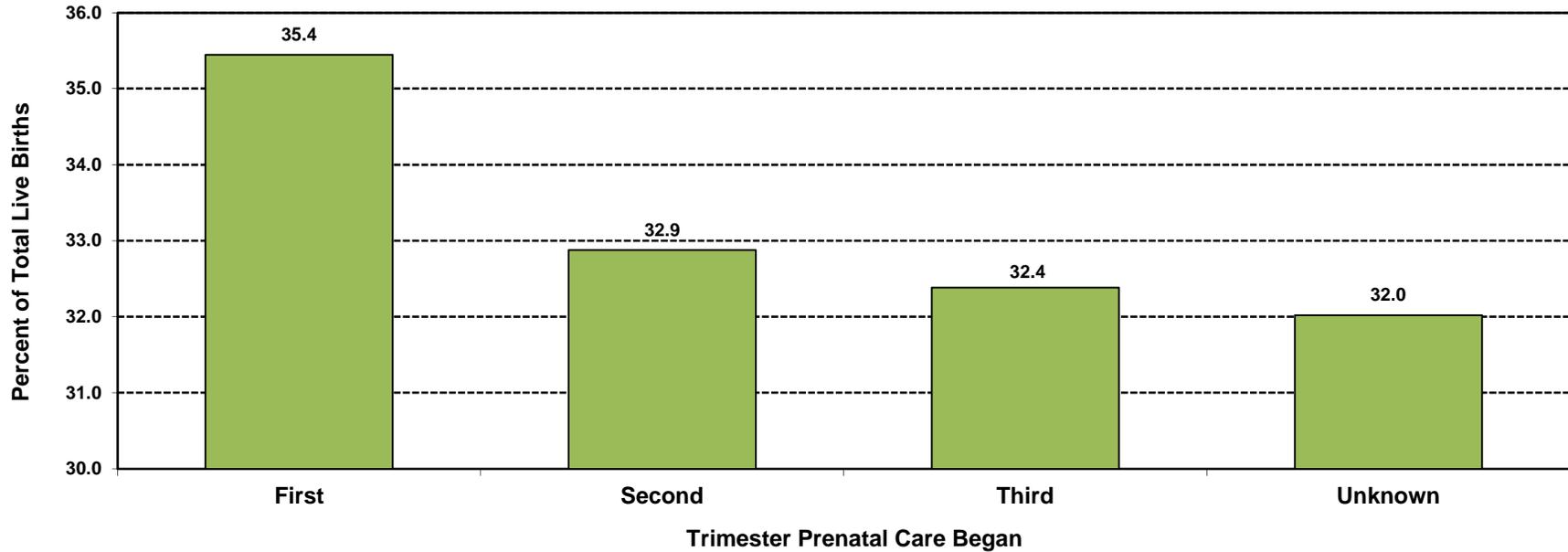
Total Live Births
1,559
9,420
111,491
348
123
122,941



Note: "Unknown" includes those weeks of gestation not stated, less than 17 weeks of gestation, and 53 weeks or more gestation. These categories reflect inaccuracies rather than actual gestation periods. Gestation is calculated from obstetrical estimate of gestation.

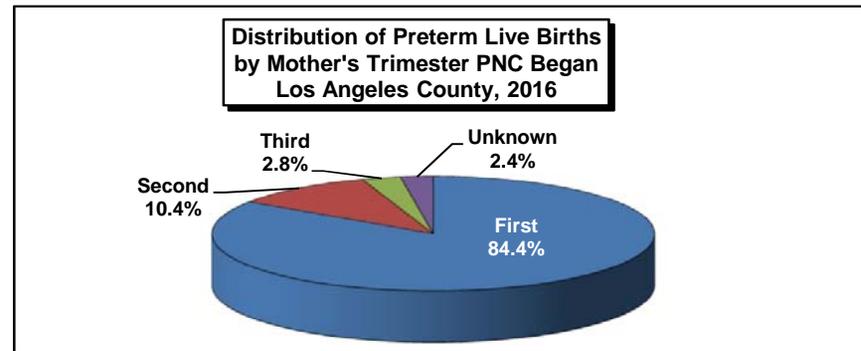
Source: California Department of Public Health, Birth Statistical Master Files, 2016.

**Cesarean Live Births as Percent of Total Live Births
by Mother's Trimester Prenatal Care (PNC) Began
Los Angeles County, 2016**



Los Angeles County, 2016				
Mother's Trimester Prenatal Care Began	Cesarean Births		95% Confidence Interval	
	Number	Percent	Lower	Upper
First	36,106	35.4	35.2	35.7
Second	4,463	32.9	32.1	33.7
Third	1,217	32.4	30.9	33.9
Unknown	1,016	32.0	30.4	33.6
Total	42,802	35.0	34.7	35.2

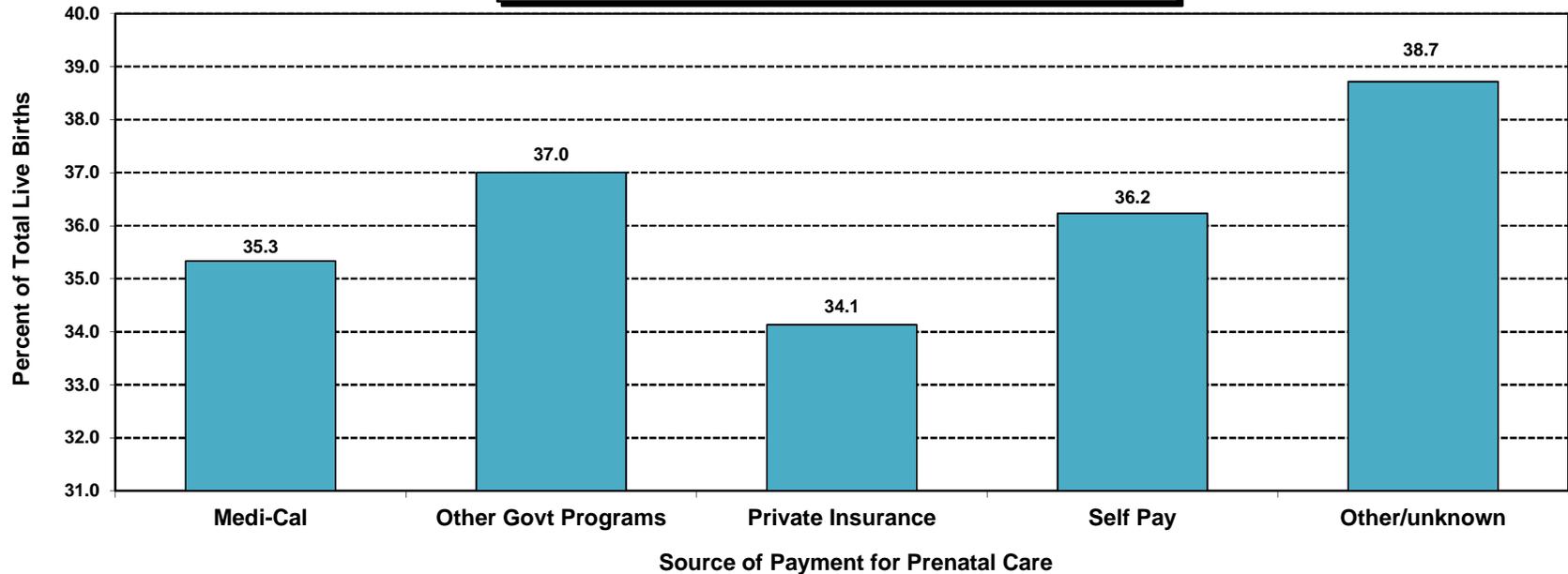
Total Live Births
101,858
13,575
3,758
3,173
122,364



Note: "Trimester Prenatal Care Began" excludes women who did not receive prenatal care (n=577) 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 Files, 2016.

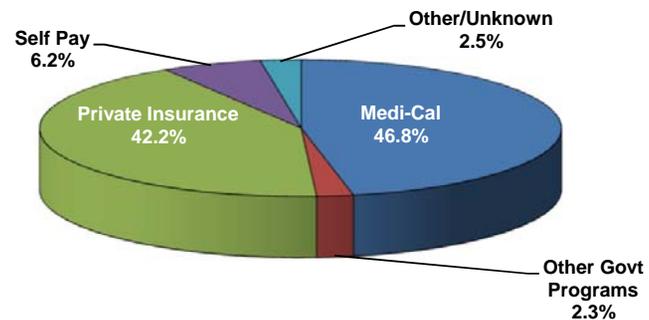
**Cesarean Live Births as Percent of Total Live Births
by Source of Payment for Prenatal Care (PNC)
Los Angeles County, 2016**



Los Angeles County, 2016				
Prenatal Care Payment Source	Cesarean Births		95% Confidence Interval	
	Number	Percent	Lower	Upper
Medi-Cal	20,030	35.3	34.9	35.7
Other Govt Programs	968	37.0	35.2	38.9
Private Insurance	18,079	34.1	33.7	34.5
Self Pay	2,649	36.2	35.1	37.3
Other/unknown	1,076	38.7	36.9	40.5
Total	42,802	36.3	35.2	37.4

Total Live Births
56,687
2,616
52,971
7,311
2,779
122,364

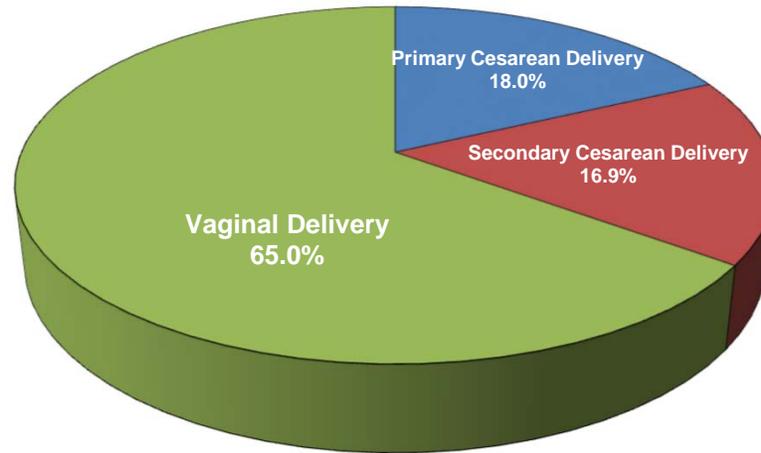
**Distribution of Cesarean Live Births
by PNC
Los Angeles County, 2016**



Note: "Source of Payment for PNC" excludes women who did not receive prenatal care (n=577) 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 Files, 2016.

**Total Live Births by Method of Delivery
Los Angeles County, 2016**



Los Angeles County, 2016				
Method of Delivery	Number of Live Births		95% Confidence Interval	
	Number	Percent	Lower	Upper
Primary Cesarean Delivery	22,166	18.0%	15.7%	20.4%
Secondary Cesarean Delivery	20,818	16.9%	14.6%	19.2%
Vaginal Delivery	79,957	65.0%	60.5%	69.5%
Total	122,941	100.0%		

Source: California Department of Public Health, Birth Statistical Master Files, 2016