

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

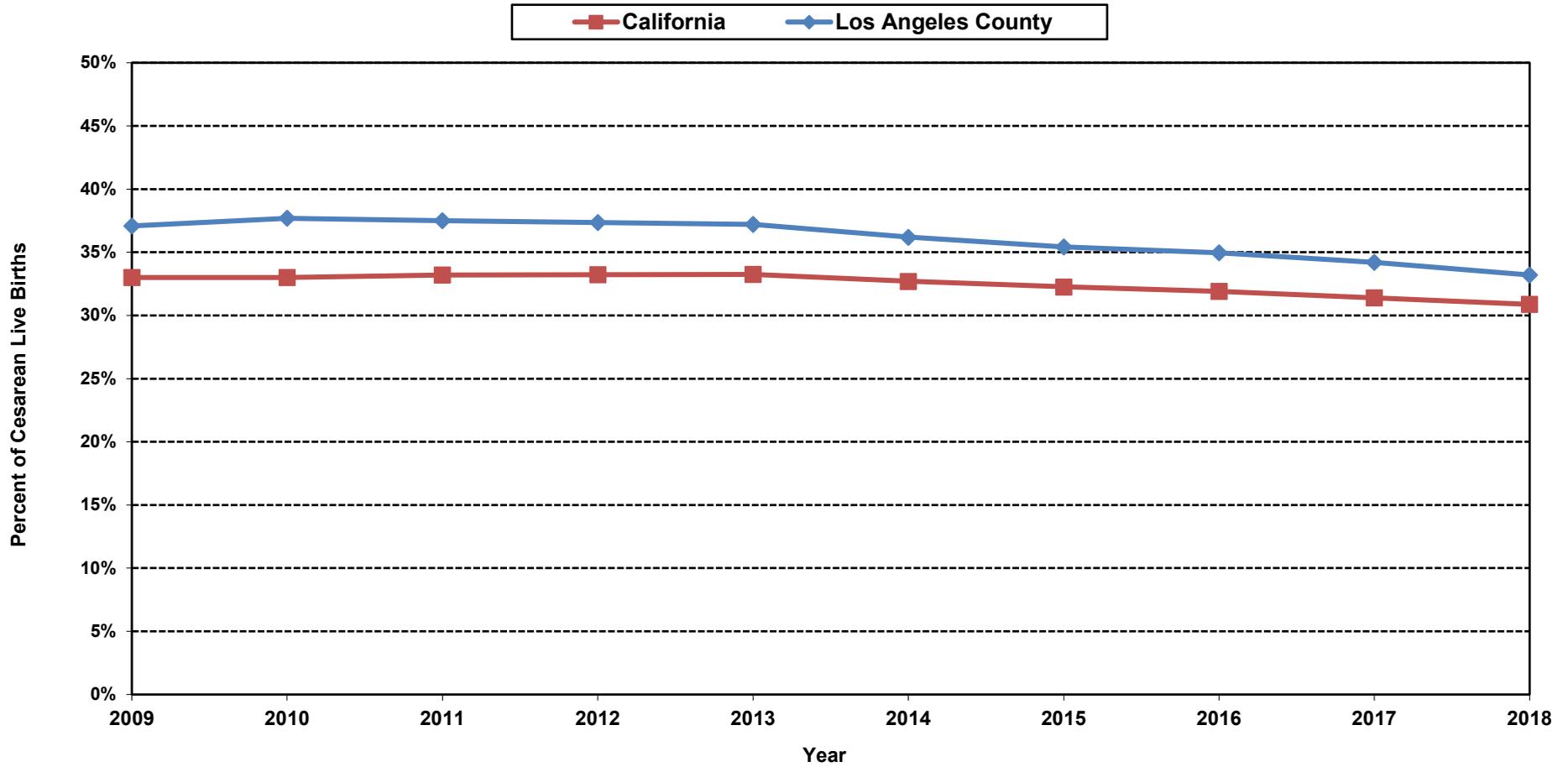
DENOMINATOR: The total number of live births, by place of residence, in a calendar year

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
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%
2017	148,077	31.4%	26.3%	36.5%	39,954	34.2%	23.6%	32.4%
2018	140,464	30.9%	25.8%	36.0%	36,489	33.2%	22.4%	31.3%

Denominator: Total Live Births		
Year	California	LA County
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
2017	471,658	116,850
2018	454,920	109,893

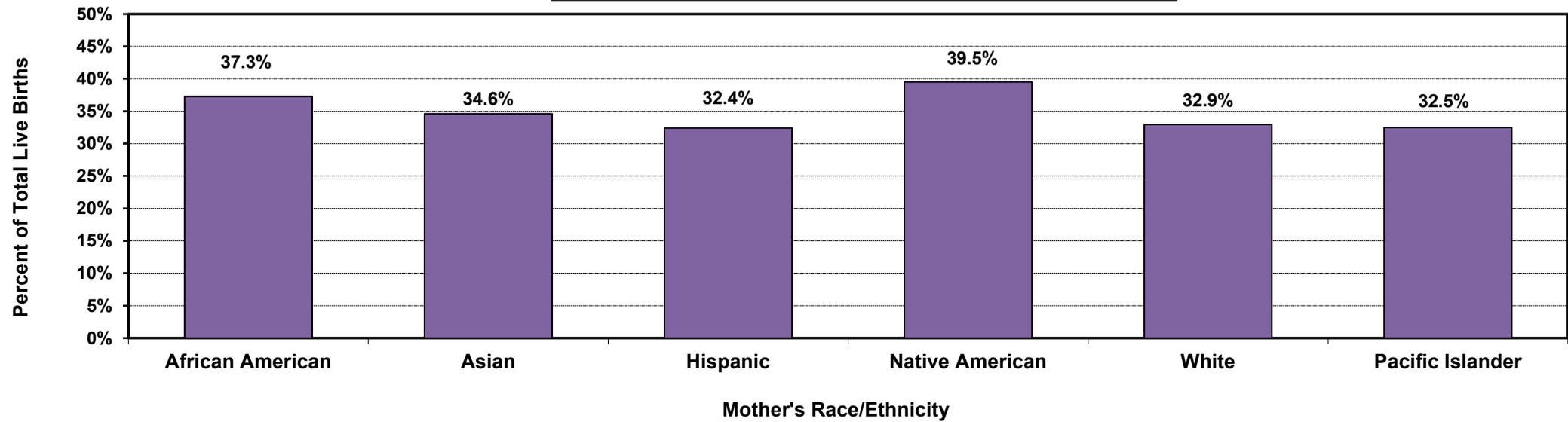
Sources: California Department of Public Health, Birth Statistical Master Files, 2009-2017
California Integrated Vital Records System, 2018

Percent of Cesarean Live Births California vs. Los Angeles County, 2009-2018



Sources: California Integrated Vital Records System, 2018
California Department of Public Health, Birth Statistical Master Files, 2009-2017

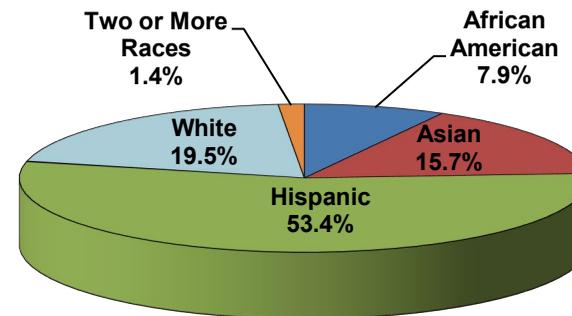
**Cesarean Live Births as a Percent of Total Live Births
by Mother's Race/Ethnicity
Los Angeles County, 2018**



Mother's Race/Ethnicity	Los Angeles County, 2018			
	Cesarean Births		95% Confidence Interval	
	Number	Percent	Lower	Upper
African American	2,893	37.3	36.2	38.4
Asian	5,722	34.6	33.9	35.3
Hispanic	19,493	32.4	32.0	32.8
Native American	49	39.5	30.9	48.1
White	7,110	32.9	32.3	33.6
Two or More Races	607	31.8	29.7	33.9
Other/Unknown	528	33.1	30.8	35.4
Pacific Islander	87	32.5	27.0	38.0
Total	36,489	34.3	31.6	36.9

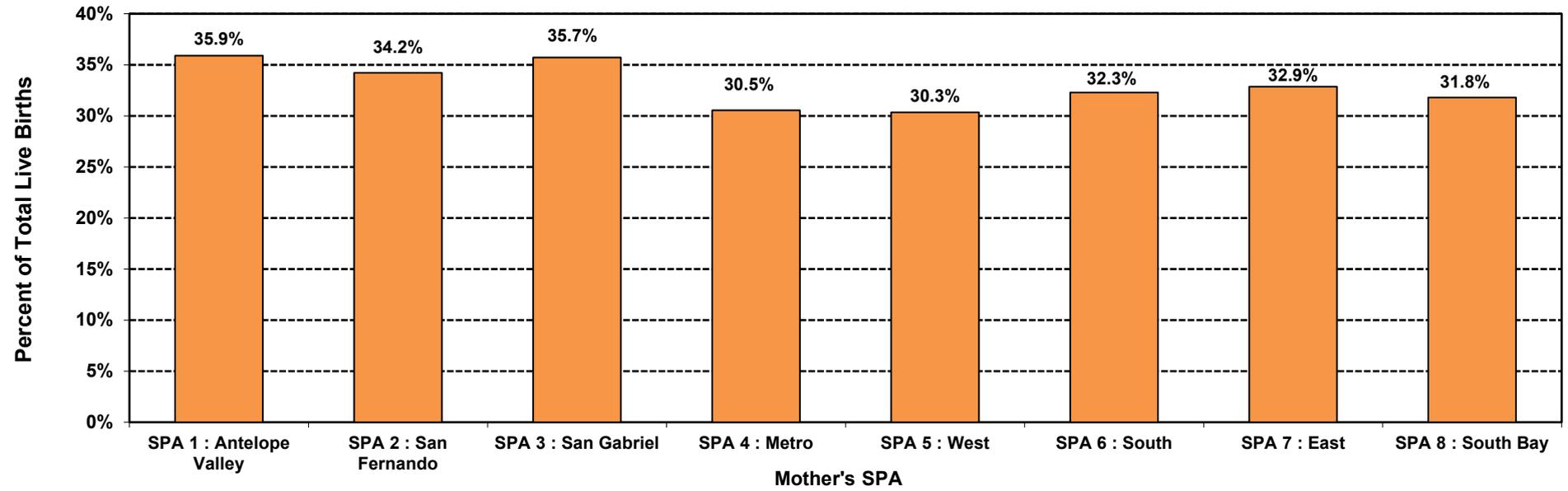
Total Live Births
7,761
16,532
60,133
124
21,581
1,908
1,596
258
109,893

**Distribution of Cesarean Live Births
by Race/Ethnicity
Los Angeles County, 2018**



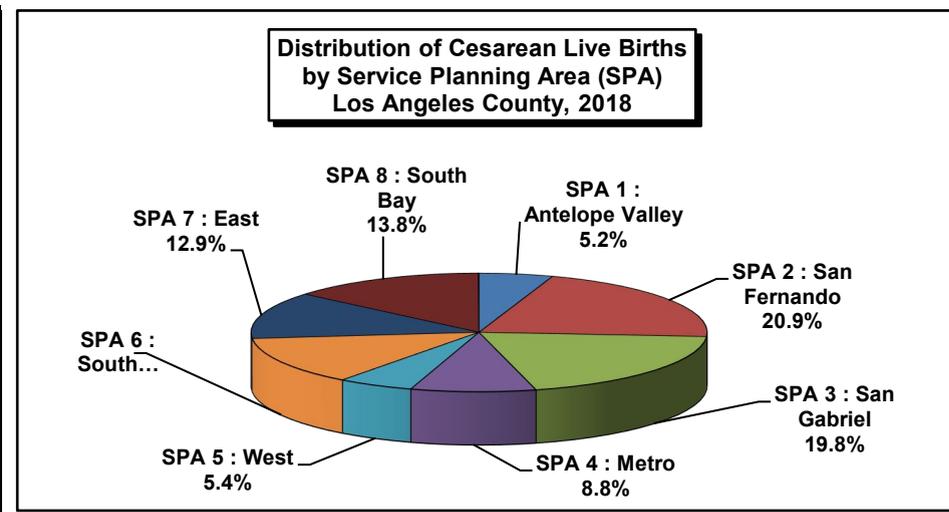
Source: California Integrated Vital Records System, 2018

**Cesarean Live Births as a Percent of Total Live Births
by Service Planning Area (SPA)
Los Angeles County, 2018**



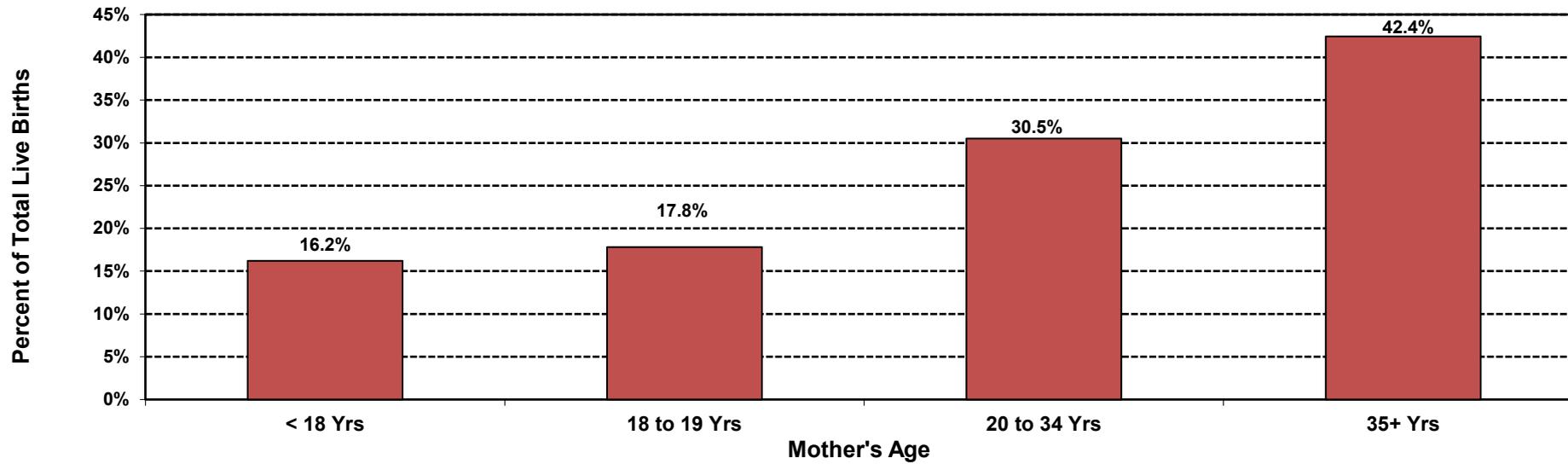
Los Angeles County, 2018				
Service Planning Area (SPA)	Cesarean Births		95% Confidence Interval	
	Number	Percent	Lower	Upper
SPA 1 : Antelope Valley	1,912	35.9	34.6	37.2
SPA 2 : San Fernando	7,631	34.2	33.6	34.8
SPA 3 : San Gabriel	7,236	35.7	35.1	36.4
SPA 4 : Metro	3,225	30.5	29.7	31.4
SPA 5 : West	1,957	30.3	29.2	31.5
SPA 6 : South	4,787	32.3	31.5	33.0
SPA 7 : East	4,689	32.9	32.1	33.6
SPA 8 : South Bay	5,039	31.8	31.1	32.5
Unknown	13	24.1	12.7	35.5
Total	36,489	32.0	29.9	34.0

Total Live Births
5,327
22,305
20,259
10,558
6,449
14,826
14,268
15,847
54
109,893



Note: SPA 8 includes Catalina Island.
Source: California Integrated Vital Records System, 2018

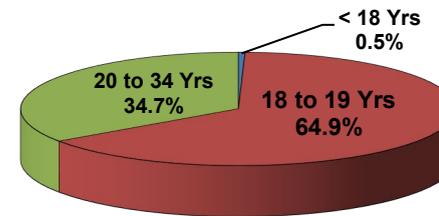
**Cesarean Live Births as a Percent of Total Live Births
by Mother's Age
Los Angeles County, 2018**



Los Angeles County, 2018				
Mother's Age	Cesarean Births		95% Confidence Interval	
	Number	Percent	Lower	Upper
< 18 Yrs	177	16.2	14.0	18.4
18 to 19 Yrs	532	17.8	16.4	19.2
20 to 34 Yrs	23,320	30.5	30.2	30.8
35+ Yrs	12,459	42.4	41.9	43.0
Unknown	<5	N/C	N/C	N/C
Total	36,488	33.2	32.9	33.5

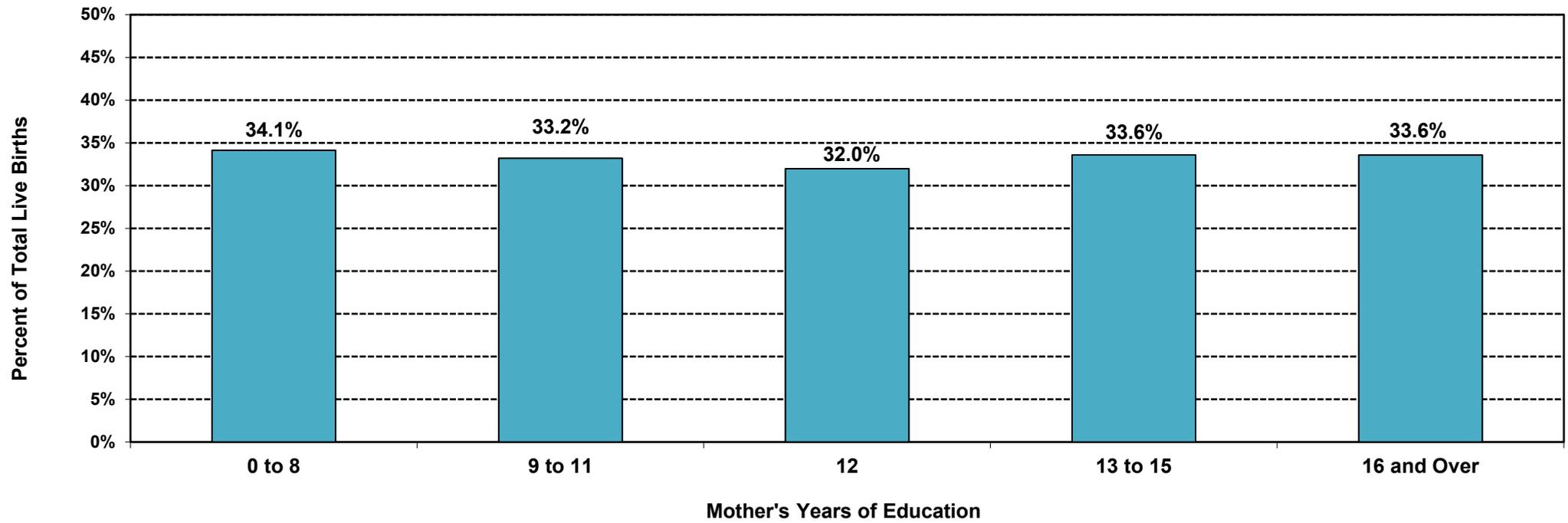
Total Live Births
1,092
2,986
76,448
29,356
11
109,893

**Distribution of Cesarean Live Births
by Mother's Age
Los Angeles County, 2018**



Source: California Integrated Vital Records System, 2018

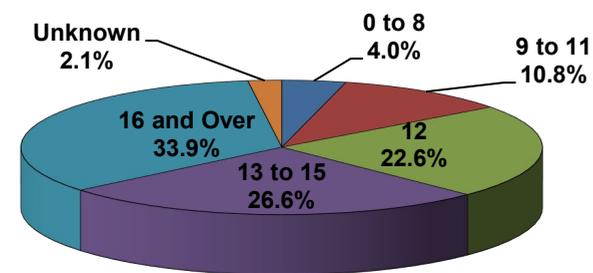
**Cesarean Live Births as a Percent of Total Live Births
by Mother's Years of Education
Los Angeles County, 2018**



Los Angeles County, 2018				
Mother's Years of Education	Cesarean Births		95% Confidence Interval	
	Number	Percent	Lower	Upper
0 to 8	1,448	34.1	32.7	35.6
9 to 11	3,952	33.2	32.4	34.0
12	8,256	32.0	31.4	32.5
13 to 15	9,689	33.6	33.0	34.1
16 and Over	12,381	33.6	33.1	34.1
Unknown	763	34.8	32.8	36.8
Total	36,489	33.5	32.6	34.5

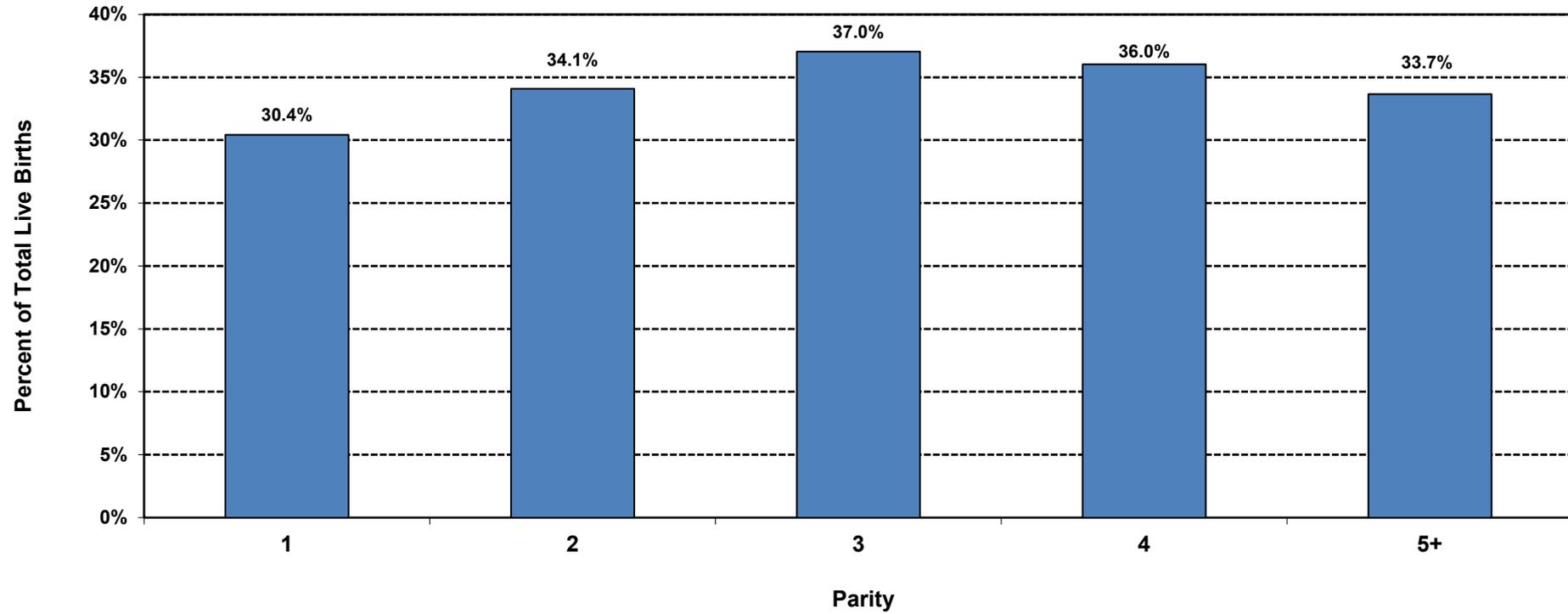
Total Live Births
4,243
11,905
25,821
28,849
36,882
2,193
109,893

**Distribution of Cesarean Live Births
by Mother's Years of Education
Los Angeles County, 2018**



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 Integrated Vital Records System, 2018

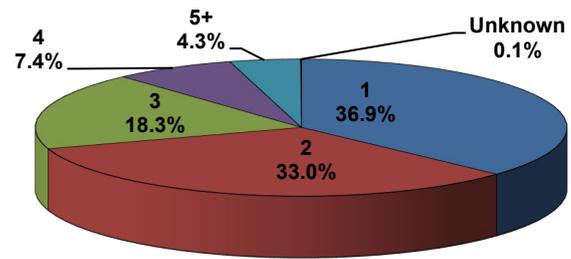
**Cesarean Live Births as Percent of Total Live Births
by Parity
Los Angeles County, 2018**



Los Angeles County, 2018				
Parity	Cesarean Births		95% Confidence Interval	
	Number	Percent	Lower	Upper
1	13,471	30.4	30.0	30.9
2	12,053	34.1	33.6	34.6
3	6,687	37.0	36.3	37.7
4	2,690	36.0	34.9	37.1
5+	1,569	33.7	32.3	35.0
Unknown	19	23.8	14.4	33.1
Total	36,489	32.5	32.2	32.8

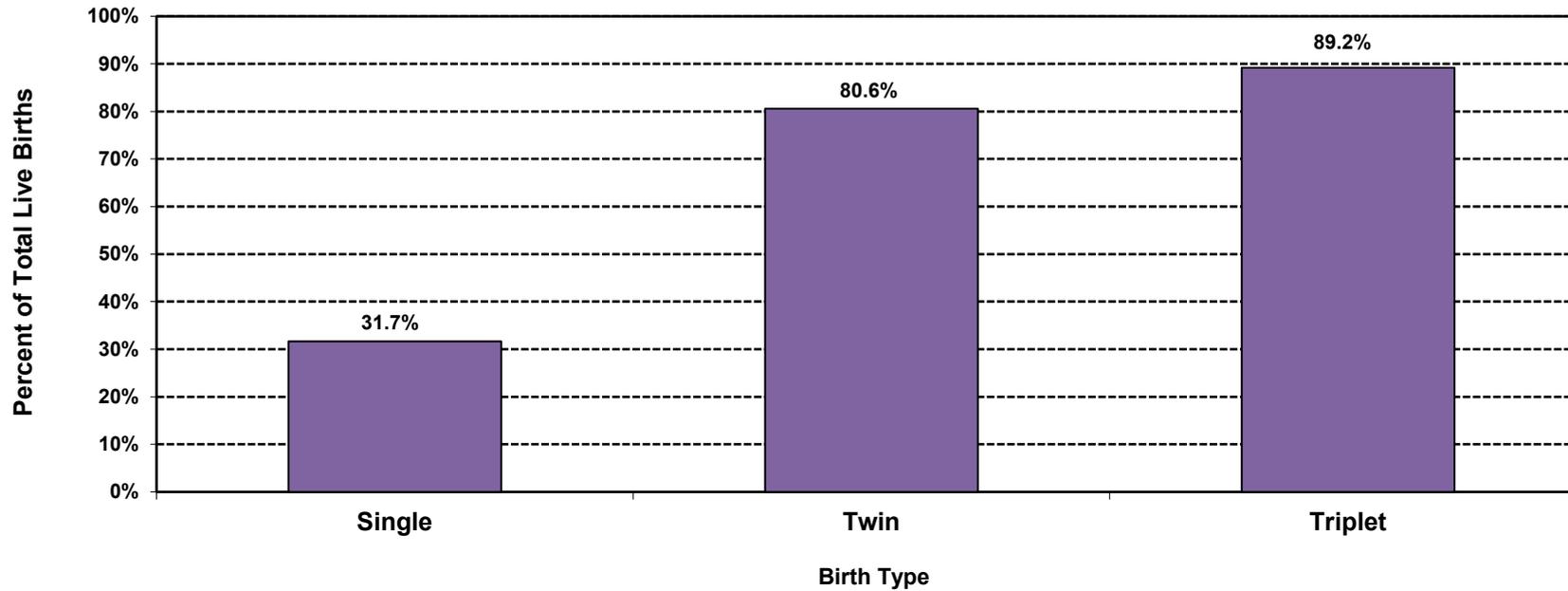
Total Live Births
44,273
35,360
18,053
7,466
4,661
80
109,893

**Distribution of Cesarean Live Births
by Parity
Los Angeles County, 2018**



Note: Parity is defined as the number of pregnancies resulting in live births to a woman.
Source: California Integrated Vital Records System, 2018

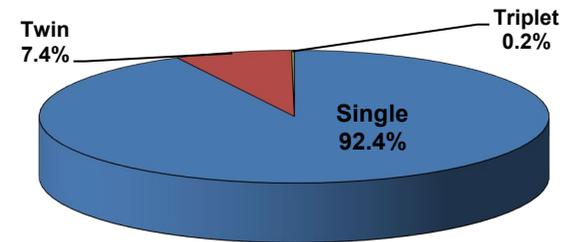
**Cesarean Live Births as Percent of Total Live Births
by Birth Type
Los Angeles County, 2018**



Los Angeles County, 2018				
Birth Type	Cesarean Births		95% Confidence Interval	
	Number	Percent	Lower	Upper
Single	33,702	31.7	31.4	31.9
Twin	2,713	80.6	79.2	81.9
Triplet	66	89.2	82.1	96.3
Quadruplet	<5	N/C	N/C	N/C
Quintuplet	<5	N/C	N/C	N/C
Total	36,489	33.2	32.9	33.5

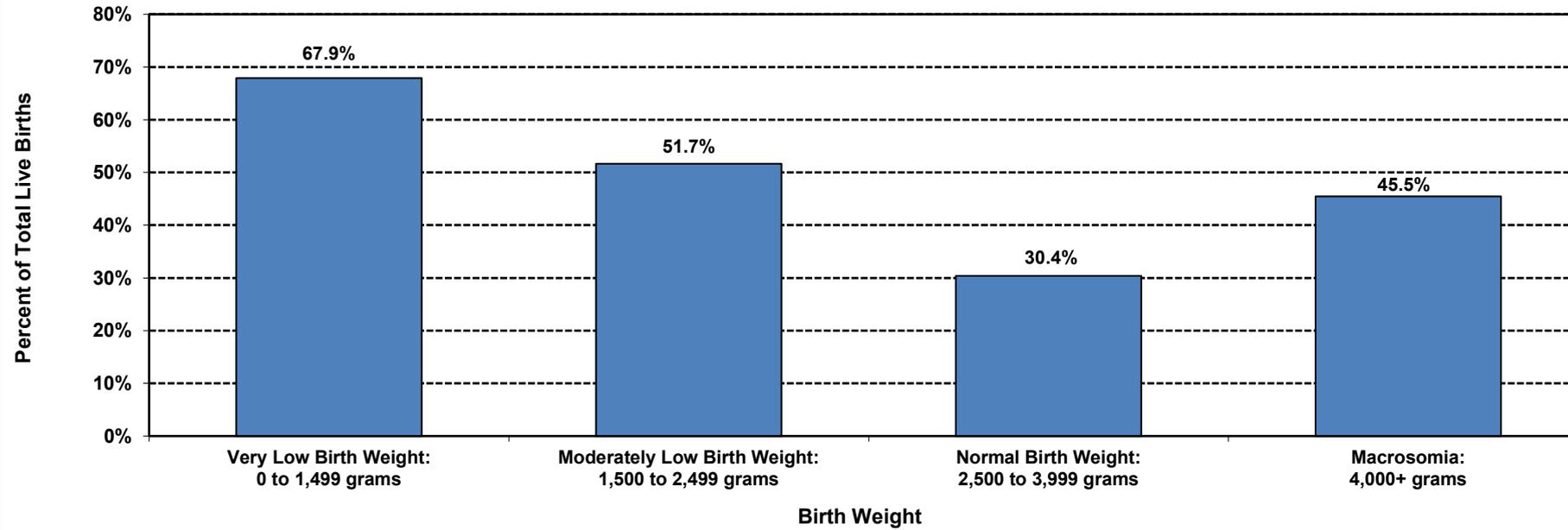
Total Live Births
106,444
3,367
74
<5
<5
109,893

**Distribution of Cesarean Live Births
by Birth Type
Los Angeles County, 2018**



Note: Numbers fewer than 5 are shown as "<5". Rates are not calculated (N/C) if number is fewer than five.
Sources: California Integrated Vital Records System, 2018

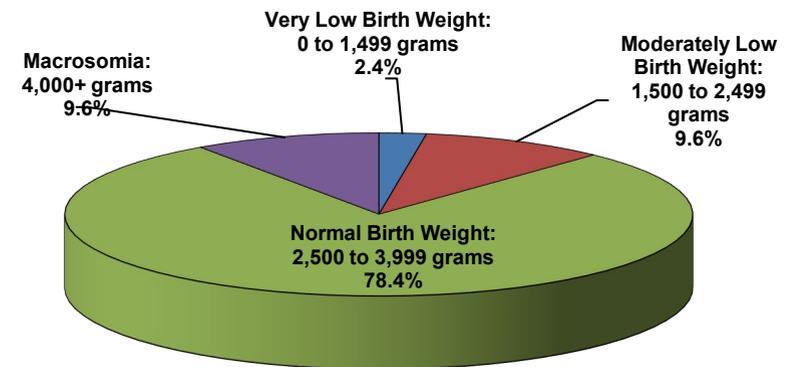
**Cesarean Live Births as a Percent of Total Live Births
by Birth Weight
Los Angeles County, 2018**



Los Angeles County, 2018				
Birth Weight	Cesarean Births		95% Confidence Interval	
	Number	Percent	Lower	Upper
Very Low Birth Weight: 0 to 1,499 grams	886	67.9	65.4	70.4
Moderately Low Birth Weight: 1,500 to 2,499 grams	3,499	51.7	50.5	52.8
Normal Birth Weight: 2,500 to 3,999 grams	28,590	30.4	30.1	30.7
Macrosomia: 4,000+ grams	3,514	45.5	44.3	46.6
Unknown	<5	N/C	N/C	N/C
Total	36,489	48.8	47.6	50.1

Total Live Births
1,305
6,774
94,082
7,730
N/C
109,891

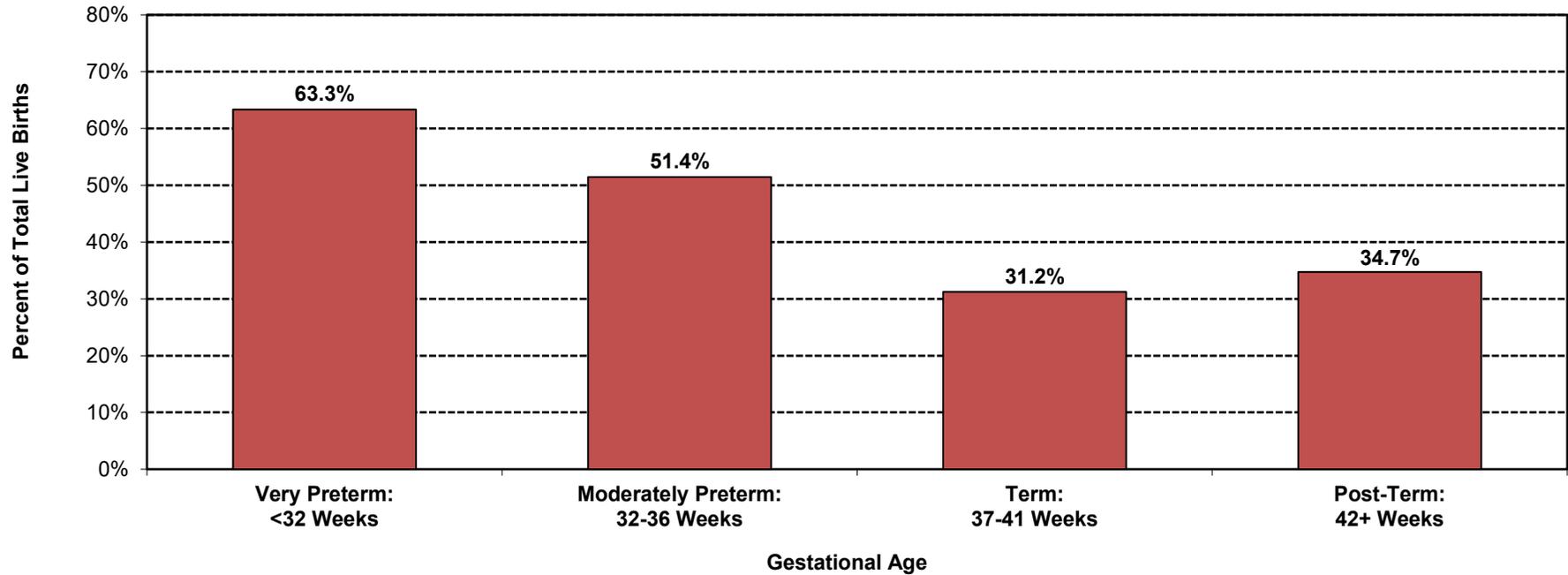
**Distribution of Cesarean Live Births
by Birth Weight
Los Angeles County, 2018**



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

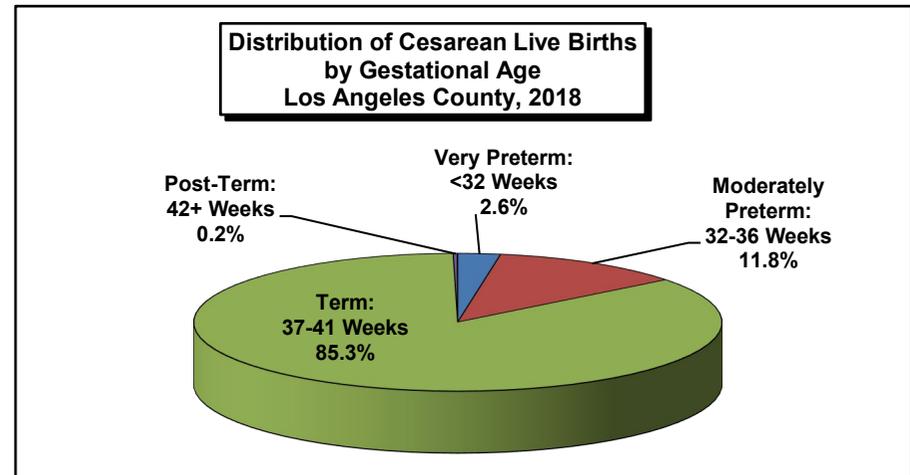
Sources: California Integrated Vital Records System, 2018

**Cesarean Live Births as Percent of Total Live Births
by Gestational Age
Los Angeles County, 2018**



Los Angeles County, 2018				
Gestational Age	Cesarean Births		95% Confidence Interval	
	Number	Percent	Lower	Upper
Very Preterm: <32 Weeks	950	63.3	60.9	65.8
Moderately Preterm: 32-36 Weeks	4,322	51.4	50.4	52.5
Term: 37-41 Weeks	31,117	31.2	30.9	31.5
Post-Term: 42+ Weeks	91	34.7	29.0	40.5
Unknown	9	13.0	5.1	21.0
Total	36,489	38.8	35.3	42.3

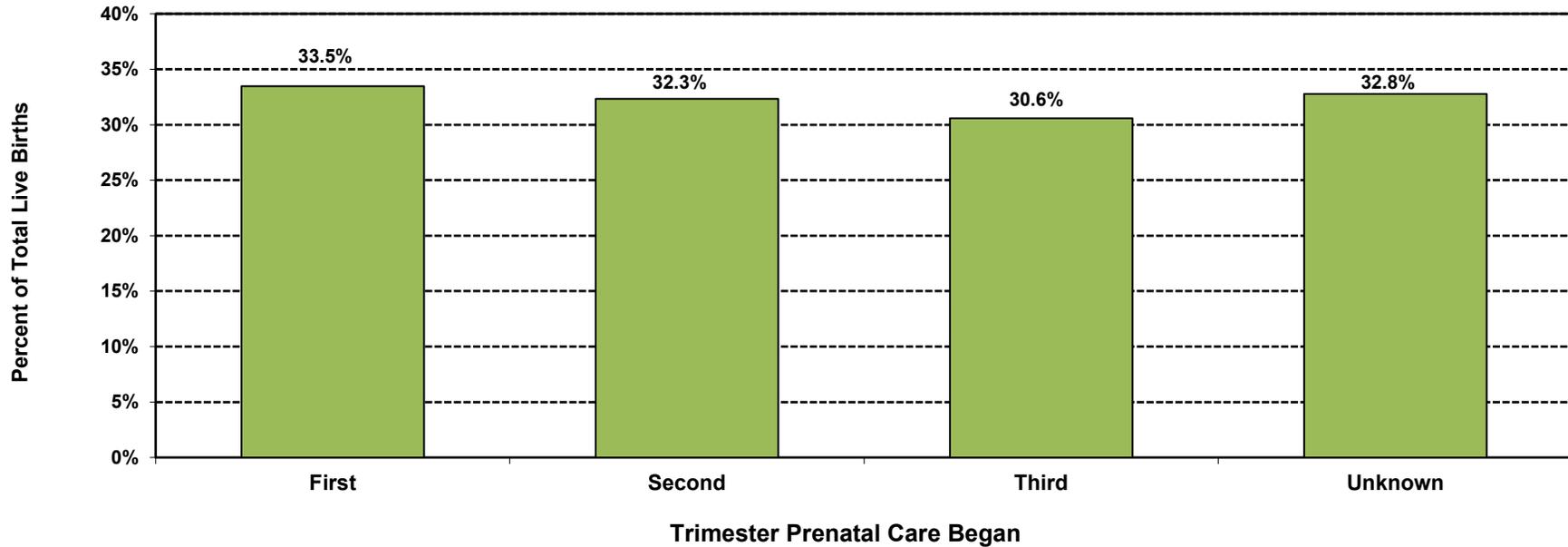
Total Live Births
1,500
8,402
99,660
262
69
109,893



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.

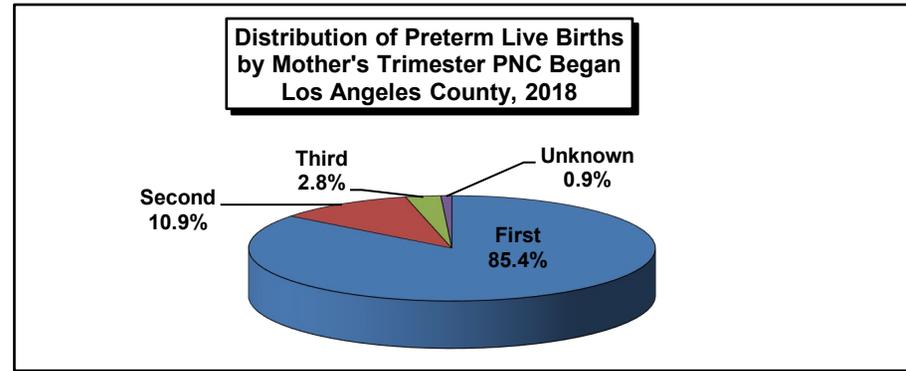
Source: California Integrated Vital Records System, 2018

**Cesarean Live Births as Percent of Total Live Births
by Mother's Trimester Prenatal Care (PNC) Began
Los Angeles County, 2018**



Los Angeles County, 2018				
Mother's Trimester Prenatal Care Began	Cesarean Births		95% Confidence Interval	
	Number	Percent	Lower	Upper
First	31,036	33.5	33.2	33.8
Second	3,966	32.3	31.5	33.2
Third	1,016	30.6	29.0	32.2
Unknown	315	32.8	29.8	35.7
Total	36,333	33.2	32.9	33.5

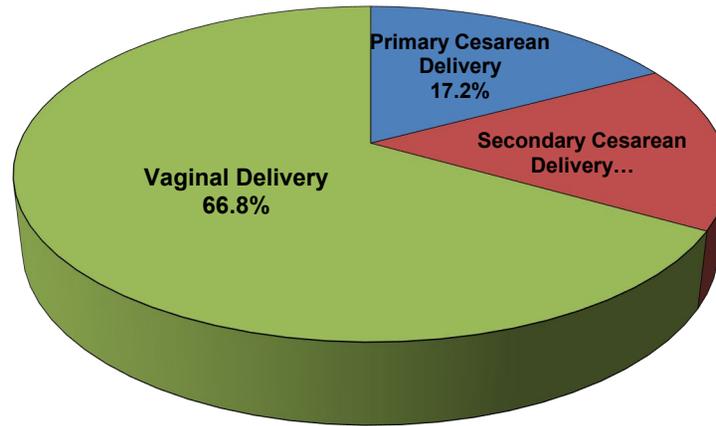
Total Live Births
92,721
12,266
3,322
961
109,270



Note: "Trimester Prenatal Care Began" excludes women who did not receive prenatal care (n=156) and the prenatal care experiences of all women whose pregnancies did not result in a live birth.

Source: California Integrated Vital Records System, 2018

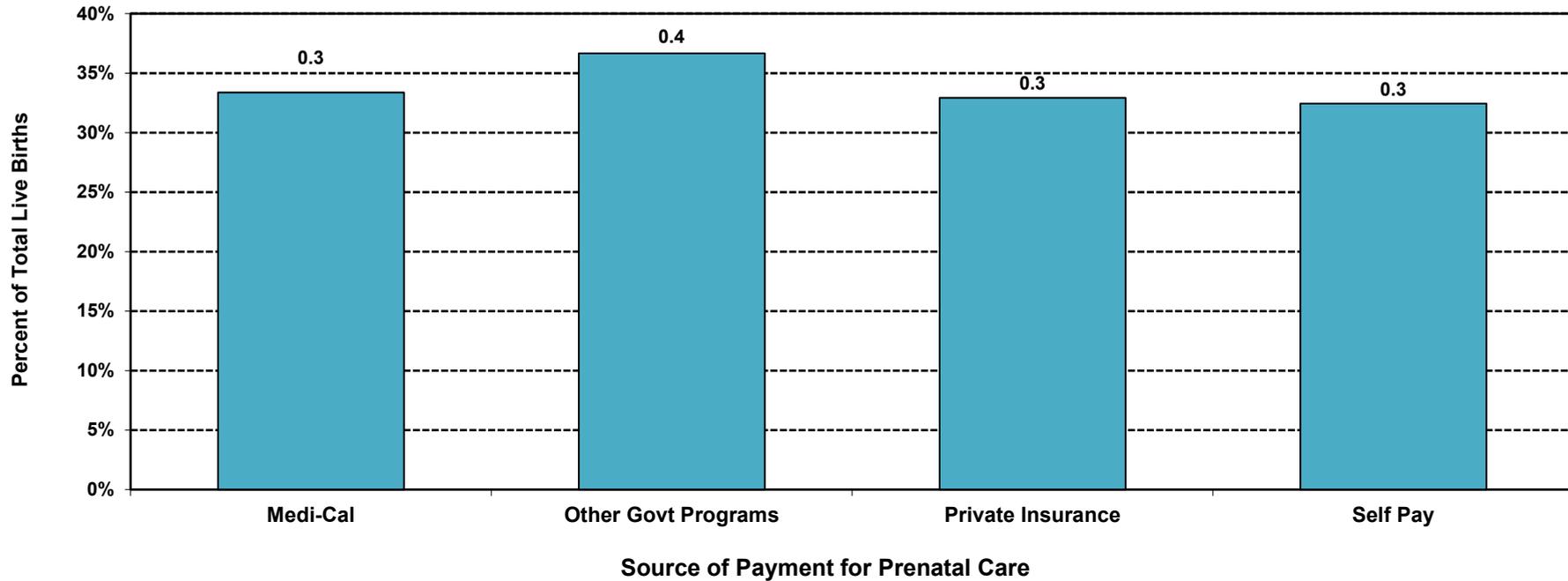
**Total Live Births
by Method of Delivery
Los Angeles County, 2018**



Los Angeles County, 2018				
Method of Delivery	Number of Live Births		95% Confidence Interval	
	Number	Percent	Lower	Upper
Primary Cesarean Delivery	18,912	17.2%	14.8%	19.7%
Secondary Cesarean Delivery	17,577	16.0%	13.6%	18.4%
Vaginal Delivery	73,404	66.8%	62.0%	71.6%
Total	109,893	100.0%	100.0%	100.0%

Source: California Integrated Vital Records System, 2018

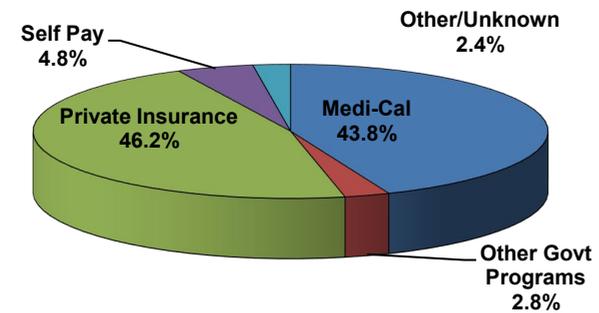
**Cesarean Live Births as Percent of Total Live Births
by Source of Payment for Prenatal Care (PNC)
Los Angeles County, 2018**



Los Angeles County, 2018				
Prenatal Care Payment Source	Cesarean Births		95% Confidence Interval	
	Number	Percent	Lower	Upper
Medi-Cal	15,908	33.4	32.9	33.8
Other Govt Programs	1,028	36.7	34.9	38.4
Private Insurance	16,787	32.9	32.5	33.3
Self Pay	1,755	32.4	31.2	33.7
Other/unknown	855	35.6	33.7	37.5
Total	36,333	34.2	33.0	35.4

Total Live Births
47,667
2,804
50,988
5,410
2,401
109,270

**Distribution of Cesarean Live Births
by PNC
Los Angeles County, 2018**



Note: "Source of Payment for PNC" excludes women who did not receive prenatal care (n=156) and the prenatal care experiences of all women whose pregnancies did not result in a live birth.

Source: California Integrated Vital Records System, 2018