



MIHA Data Snapshot, Orange County by Education, 2013-2015

Maternal and Infant Health Assessment (MIHA) Survey

	Orange County			<High School			High School Graduate or GED			Some College			College Graduate		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		37,200	9.8	7.3 - 12.4	3,600	20.5	16.2 - 24.8	7,600	27.0	21.8 - 32.3	10,000	42.6	37.1 - 48.1	15,700
Health Status before Pregnancy															
In good to excellent health	93.3	91.0 - 95.7	34,700	86.0*	76.8 - 95.1	3,100	81.0	72.0 - 89.9	6,100	95.7*	92.2 - 99.2	9,500	--		
Chronic conditions															
Diabetes†	2.2*	0.8 - 3.6	800	--			--			--			--		
Hypertension†	1.9*	0.5 - 3.4	700	--			--			--			--		
Asthma†	7.1	4.5 - 9.7	2,600	--			6.7*	1.3 - 12.2	500	7.3*	1.5 - 13.0	700	7.4	3.4 - 11.3	1,100
Nutrition and Weight															
Daily folic acid use, month before pregnancy	39.3	33.5 - 45.1	14,600	28.0	15.4 - 40.6	1,000	32.4	20.2 - 44.6	2,500	31.9	21.0 - 42.8	3,200	49.4	39.5 - 59.3	7,800
Overweight before pregnancy	21.8	17.0 - 26.7	7,800	39.3	23.9 - 54.8	1,300	26.0	15.4 - 36.5	1,700	20.1	10.7 - 29.5	2,000	17.6	10.3 - 24.9	2,700
Obese before pregnancy	15.3	11.1 - 19.5	5,500	14.6*	4.2 - 25.0	500	20.3	10.6 - 30.0	1,400	18.9	10.7 - 27.1	1,900	11.1*	4.5 - 17.6	1,700
Inadequate weight gain during pregnancy	20.3	15.1 - 25.5	6,500	17.4*	4.6 - 30.1	400	25.1	12.7 - 37.6	1,400	20.9	11.9 - 29.8	1,900	18.6	10.3 - 26.8	2,700
Excessive weight gain during pregnancy	35.5	29.4 - 41.6	11,300	35.9	21.0 - 50.7	900	25.5	13.6 - 37.3	1,400	37.7	26.9 - 48.6	3,500	38.0	27.7 - 48.2	5,500
Food insecurity during pregnancy	11.7	8.6 - 14.7	4,300	26.6	14.9 - 38.2	900	21.9	12.6 - 31.2	1,700	12.9	6.3 - 19.5	1,300	2.7*	0.3 - 5.0	400
Intimate Partner Violence (IPV) and Depressive Symptoms															
Physical or psychological IPV during pregnancy	5.8	3.3 - 8.4	2,100	13.7*	4.5 - 22.9	500	14.8*	5.0 - 24.7	1,100	4.7*	0.9 - 8.5	500	--		
Prenatal depressive symptoms	14.9	10.9 - 18.9	5,500	31.2	18.1 - 44.2	1,100	25.5	14.7 - 36.3	1,900	8.7	4.0 - 13.4	900	10.1*	3.6 - 16.6	1,600
Postpartum depressive symptoms	12.8	8.8 - 16.8	4,700	22.4	10.0 - 34.8	800	18.6	8.5 - 28.6	1,400	9.7*	3.1 - 16.2	1,000	9.9*	3.7 - 16.1	1,600
Hardships and Support during Pregnancy															
Experienced two or more hardships during childhood	23.0	18.3 - 27.8	8,200	27.6	14.8 - 40.3	1,000	37.1	25.4 - 48.9	2,700	26.4	16.9 - 35.8	2,500	13.2	6.6 - 19.9	2,000
Homeless or did not have a regular place to sleep	1.9*	0.6 - 3.3	700	--			--			--			--		
Moved due to problems paying rent or mortgage	7.1	4.3 - 9.9	2,600	15.6	6.5 - 24.7	600	6.9*	1.9 - 11.8	500	7.8*	2.8 - 12.9	700	--		
Woman or partner lost job	10.9	8.1 - 13.8	3,900	18.3	7.6 - 29.0	600	12.2	5.6 - 18.9	900	21.3	13.3 - 29.3	2,000	2.5*	0.6 - 4.3	400
Woman or partner had pay or hours cut back	14.0	9.9 - 18.1	5,100	23.7	12.2 - 35.2	800	16.8	8.3 - 25.3	1,200	16.5	8.3 - 24.7	1,500	9.0*	2.6 - 15.3	1,400
Became separated or divorced	5.7	3.2 - 8.2	2,100	10.4*	3.1 - 17.7	400	12.1*	4.3 - 19.8	900	4.8*	1.1 - 8.6	500	--		
Had no practical or emotional support	4.6	2.5 - 6.6	1,700	11.9*	3.8 - 20.0	400	13.9*	5.5 - 22.2	1,000	--			--		
Substance Use															
Any smoking, 3 months before pregnancy	5.7	3.3 - 8.1	2,100	--			10.1*	2.7 - 17.6	800	5.8*	1.4 - 10.2	600	4.5*	1.2 - 7.9	700
Any smoking, 3rd trimester†	--			--			--			--			--		
Any smoking, postpartum	1.8*	0.4 - 3.3	700	--			--			--			--		
Any binge drinking, 3 months before pregnancy	14.5	10.5 - 18.6	5,300	--			10.2*	3.6 - 16.9	800	15.5	8.9 - 22.2	1,500	18.7	10.9 - 26.5	2,900
Any alcohol use, 3rd trimester†	7.3	4.2 - 10.4	2,700	--			--			8.4*	2.1 - 14.7	800	11.6	5.5 - 17.7	1,800
Pregnancy Intention and Family Planning															
Mistimed or unwanted pregnancy	27.0	22.2 - 31.8	10,000	41.2	27.3 - 55.0	1,500	39.4	27.7 - 51.1	3,000	35.0	24.6 - 45.5	3,500	12.6	6.7 - 18.4	2,000
Unsure of pregnancy intentions	10.8	7.2 - 14.5	4,000	10.8*	2.6 - 19.0	400	15.7	7.4 - 24.0	1,200	12.6	5.4 - 19.7	1,300	7.6*	1.8 - 13.4	1,200
Postpartum birth control use†	78.1	73.1 - 83.0	28,500	82.3*	71.4 - 93.2	2,900	79.5	69.3 - 89.7	6,000	79.0	69.7 - 88.3	7,800	75.7	67.3 - 84.0	11,600
Infant Sleep and Breastfeeding															
Placed infant on back to sleep	86.4	82.7 - 90.2	31,700	75.5	64.0 - 87.0	2,700	80.6	70.8 - 90.5	5,900	88.1	81.6 - 94.6	8,800	90.6	85.1 - 96.1	14,200
Infant always or often shared bed	28.7	23.1 - 34.3	10,500	34.2	21.2 - 47.1	1,200	38.5	26.1 - 51.0	2,800	23.9	14.6 - 33.1	2,400	26.1	16.5 - 35.7	4,100
Intended to breastfeed, before birth	91.6	88.1 - 95.1	33,600	90.8*	84.3 - 97.4	3,300	92.5*	86.4 - 98.6	6,800	88.2*	80.3 - 96.0	8,800	93.5*	87.9 - 99.0	14,600
Intended to breastfeed exclusively, before birth	60.3	54.4 - 66.1	22,100	46.2	32.0 - 60.4	1,700	54.9	42.5 - 67.4	4,000	64.1	53.3 - 75.0	6,400	63.6	53.7 - 73.4	9,900
Breastfeeding practices															
Any breastfeeding, 1 month after delivery	85.8	82.0 - 89.7	30,800	81.5	70.9 - 92.1	2,900	81.1	71.6 - 90.6	5,800	85.2	78.5 - 91.9	8,200	89.3*	83.0 - 95.6	13,900
Exclusive breastfeeding, 1 month after delivery	39.9	33.9 - 45.9	14,100	41.4	27.0 - 55.7	1,500	25.8	14.9 - 36.6	1,700	45.4	33.9 - 57.0	4,300	42.2	32.2 - 52.2	6,500
Any breastfeeding, 3 months after delivery	76.1	70.8 - 81.3	20,300	58.0	42.9 - 73.1	1,800	68.8	55.7 - 81.8	3,800	75.1	65.4 - 84.7	5,600	86.0	78.2 - 93.8	9,000
Exclusive breastfeeding, 3 months after delivery	29.2	22.7 - 35.8	7,700	18.3*	5.0 - 31.6	600	15.4*	3.7 - 27.1	800	30.0	17.6 - 42.3	2,300	39.3	27.2 - 51.3	4,000

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health Division and the Women, Infants and Children Division in the California Department of Public Health and the Center on Social Disparities in Health at the University of California San Francisco.



MIHA Data Snapshot, Orange County by Education, 2013-2015

Maternal and Infant Health Assessment (MIHA) Survey

	Orange County			<High School			High School Graduate or GED			Some College			College Graduate		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Service Utilization and Health Insurance Coverage															
Had a usual source of pre-pregnancy care	72.8	68.2 - 77.5	27,000	48.4	34.4 - 62.4	1,800	61.4	50.0 - 72.8	4,600	72.9	63.4 - 82.3	7,200	83.6	76.7 - 90.4	13,100
Initiated prenatal care in 1st trimester	93.4	90.5 - 96.2	34,400	86.8	79.1 - 94.4	2,900	93.2 *	88.3 - 98.1	7,000	92.2 *	87.5 - 96.8	9,200	--		
Mom or infant needed but couldn't afford care postpartum	7.5	4.9 - 10.1	2,700	22.2	11.3 - 33.1	800	8.7 *	2.8 - 14.7	600	7.3 *	2.6 - 11.9	700	--		
Participated in WIC during pregnancy†	43.0	38.6 - 47.4	15,500	--			79.7	69.0 - 90.5	5,900	44.3	34.0 - 54.7	4,200	12.6	6.0 - 19.3	2,000
Received CalFresh (food stamps) during pregnancy	15.5	11.9 - 19.1	5,700	45.5	31.6 - 59.5	1,600	29.9	19.1 - 40.7	2,300	13.8	6.7 - 20.8	1,400	--		
Pre-pregnancy insurance															
Medi-Cal	16.9	13.4 - 20.5	6,300	43.1	28.9 - 57.3	1,600	31.4	20.2 - 42.6	2,400	17.2	10.6 - 23.8	1,700	3.8 *	0.2 - 7.4	600
Uninsured	19.3	15.8 - 22.8	7,200	51.1	36.9 - 65.3	1,800	42.8	31.0 - 54.6	3,200	13.1	7.4 - 18.8	1,300	5.0 *	1.5 - 8.5	800
Private	60.4	56.3 - 64.5	22,400	--			25.6	14.4 - 36.7	1,900	65.7	56.7 - 74.7	6,600	86.7	80.7 - 92.8	13,600
Prenatal insurance															
Medi-Cal	38.1	34.3 - 41.8	14,100	--			76.4	65.4 - 87.5	5,800	33.8	25.2 - 42.3	3,400	9.5	4.5 - 14.5	1,500
Uninsured	--			--			--			--			--		
Private	57.9	53.7 - 62.0	21,400	--			21.7	10.8 - 32.6	1,600	62.6	53.6 - 71.7	6,300	84.9	78.2 - 91.7	13,400
Maternal postpartum insurance															
Medi-Cal	23.8	19.9 - 27.7	8,800	48.9	34.7 - 63.2	1,800	54.7	42.5 - 66.8	4,100	21.1	14.0 - 28.2	2,100	5.3 *	1.3 - 9.2	800
Uninsured	15.0	11.7 - 18.4	5,500	47.4	33.1 - 61.6	1,700	22.2	13.1 - 31.3	1,700	15.2	7.8 - 22.5	1,500	4.3 *	1.0 - 7.6	700
Private	58.4	54.3 - 62.6	21,500	--			22.9	11.9 - 33.9	1,700	60.1	50.2 - 69.9	6,000	86.9	80.9 - 92.9	13,700
Infant health insurance															
Medi-Cal	42.4	38.1 - 46.6	15,400	--			80.4	70.3 - 90.4	5,800	39.1	29.4 - 48.8	3,900	14.6	7.7 - 21.5	2,300
Uninsured	0.8 *	0.0 - 1.6	300	--			--			--			--		
Private	54.2	49.9 - 58.6	19,800	--			17.6	7.7 - 27.5	1,300	55.4	45.2 - 65.5	5,500	82.7	75.4 - 90.1	12,900
Maternal Demographics															
Unmarried	27.9	23.4 - 32.3	10,300	52.3	38.2 - 66.3	1,900	55.3	43.0 - 67.6	4,200	34.7	24.8 - 44.5	3,500	4.5 *	0.5 - 8.5	700
Race/Ethnicity															
White	31.1	26.0 - 36.3	11,400	--			8.4 *	1.4 - 15.4	600	39.1	27.9 - 50.3	3,900	44.3	34.6 - 54.0	6,800
Hispanic	45.0	39.8 - 50.3	16,500	--			80.2	69.3 - 91.2	6,100	45.2	34.3 - 56.1	4,500	15.8	8.9 - 22.6	2,400
Asian/Pacific Islander	22.5	16.6 - 28.3	8,200	--			10.7 *	1.2 - 20.3	800	13.6 *	4.8 - 22.4	1,400	38.5	28.1 - 48.8	5,900
Black	1.4	1.0 - 1.7	500	0.9 *	0.2 - 1.7	<100	0.6 *	0.1 - 1.0	<100	2.0	1.0 - 2.9	200	1.4	0.9 - 2.0	200
Born outside the U.S.	45.4	39.6 - 51.2	16,900	69.6	57.3 - 81.9	2,500	57.7	45.7 - 69.6	4,400	28.4	18.3 - 38.5	2,800	45.1	35.0 - 55.2	7,100
Speaks non-English language at home	33.9	28.4 - 39.3	12,300	75.8	64.7 - 86.8	2,800	47.5	35.3 - 59.6	3,600	20.2	11.3 - 29.1	2,000	25.9	16.4 - 35.3	3,900
Lives in a high poverty neighborhood	26.3	21.4 - 31.2	9,200	55.4	40.0 - 70.9	1,600	47.6	35.0 - 60.1	3,300	15.9	8.5 - 23.2	1,500	16.5	9.0 - 23.9	2,500
Income as a percent of the Federal Poverty Guideline															
0-100%	29.1	24.9 - 33.3	10,100	82.7 *	71.7 - 93.7	2,800	63.0	50.4 - 75.5	4,400	21.2	13.7 - 28.7	1,900	6.0 *	1.7 - 10.2	900
101-200%	21.7	16.6 - 26.8	7,500	12.6 *	3.5 - 21.7	400	29.5	17.7 - 41.4	2,100	29.0	18.8 - 39.2	2,600	15.8	7.8 - 23.7	2,400
> 200%	49.2	44.1 - 54.3	17,100	--			--			49.8	38.6 - 61.0	4,600	78.3	69.7 - 86.9	11,800

-- Estimate not shown because the relative standard error (RSE) is greater than 50%, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition may not be comparable to previous Snapshots (see Technical Notes).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2013-2015 were combined, resulting in a statewide sample size of 20,762. The sample size of Orange County was 550. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2013-2015. Population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey County and Regional Data Snapshots for Subgroups, 2013-2015. California Department of Public Health; 2018.

Geographical Area Snapshot is not provided due to suppression criteria.

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MIHA Data Snapshot, Orange County by Income, 2013-2015

Maternal and Infant Health Assessment (MIHA) Survey

	Orange County			0-100% Federal Poverty Guideline			101-200% Federal Poverty Guideline			> 200% Federal Poverty Guideline		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		37,200	29.1	24.9 - 33.3	10,100	21.7	16.6 - 26.8	7,500	49.2	44.1 - 54.3	17,100
Health Status before Pregnancy												
In good to excellent health	93.3	91.0 - 95.7	34,700	83.2	76.2 - 90.1	8,400	--			--		
Chronic conditions												
Diabetes†	2.2 *	0.8 - 3.6	800	5.0 *	0.7 - 9.3	500	--			--		
Hypertension†	1.9 *	0.5 - 3.4	700	--			--			--		
Asthma†	7.1	4.5 - 9.7	2,600	6.6 *	2.2 - 11.0	600	4.1 *	0.3 - 7.9	300	8.2	3.8 - 12.7	1,400
Nutrition and Weight												
Daily folic acid use, month before pregnancy	39.3	33.5 - 45.1	14,600	29.1	19.9 - 38.2	2,900	34.2	21.2 - 47.2	2,600	48.1	38.8 - 57.5	8,200
Overweight before pregnancy	21.8	17.0 - 26.7	7,800	28.3	19.7 - 37.0	2,700	27.7	15.3 - 40.1	1,900	14.4	7.9 - 21.0	2,400
Obese before pregnancy	15.3	11.1 - 19.5	5,500	20.1	12.2 - 27.9	1,900	19.9	9.0 - 30.8	1,400	11.4	5.5 - 17.3	1,900
Inadequate weight gain during pregnancy	20.3	15.1 - 25.5	6,500	26.8	16.0 - 37.6	2,000	21.4	9.7 - 33.2	1,400	16.2	9.1 - 23.2	2,600
Excessive weight gain during pregnancy	35.5	29.4 - 41.6	11,300	35.5	25.2 - 45.7	2,700	37.4	23.6 - 51.3	2,500	35.3	25.9 - 44.7	5,600
Food insecurity during pregnancy	11.7	8.6 - 14.7	4,300	28.3	19.9 - 36.7	2,800	11.4 *	4.2 - 18.6	900	2.1 *	0.0 - 4.2	400
Intimate Partner Violence (IPV) and Depressive Symptoms												
Physical or psychological IPV during pregnancy	5.8	3.3 - 8.4	2,100	15.3	8.7 - 21.9	1,500	--			--		
Prenatal depressive symptoms	14.9	10.9 - 18.9	5,500	28.4	19.4 - 37.5	2,900	16.0 *	5.4 - 26.7	1,200	6.3 *	2.0 - 10.6	1,100
Postpartum depressive symptoms	12.8	8.8 - 16.8	4,700	20.0	11.7 - 28.2	2,000	17.2 *	5.7 - 28.7	1,300	7.6 *	3.0 - 12.2	1,300
Hardships and Support during Pregnancy												
Experienced two or more hardships during childhood	23.0	18.3 - 27.8	8,200	29.8	21.0 - 38.6	2,800	24.7	14.2 - 35.2	1,700	18.5	11.4 - 25.7	3,200
Homeless or did not have a regular place to sleep	1.9 *	0.6 - 3.3	700	7.2 *	2.2 - 12.3	700	--			--		
Moved due to problems paying rent or mortgage	7.1	4.3 - 9.9	2,600	14.1	8.5 - 19.7	1,400	--			--		
Woman or partner lost job	10.9	8.1 - 13.8	3,900	21.7	14.3 - 29.0	2,100	12.0	5.2 - 18.8	900	5.3 *	2.1 - 8.5	900
Woman or partner had pay or hours cut back	14.0	9.9 - 18.1	5,100	21.9	14.2 - 29.6	2,100	9.8 *	2.4 - 17.1	700	12.0	5.4 - 18.5	2,000
Became separated or divorced	5.7	3.2 - 8.2	2,100	15.2	7.5 - 23.0	1,500	--			--		
Had no practical or emotional support	4.6	2.5 - 6.6	1,700	15.1	8.1 - 22.1	1,500	--			--		
Substance Use												
Any smoking, 3 months before pregnancy	5.7	3.3 - 8.1	2,100	6.9 *	1.7 - 12.1	700	--			5.2 *	1.9 - 8.5	900
Any smoking, 3rd trimester†	--			--			--			--		
Any smoking, postpartum	1.8 *	0.4 - 3.3	700	--			--			--		
Any binge drinking, 3 months before pregnancy	14.5	10.5 - 18.6	5,300	9.1	4.0 - 14.1	900	14.6 *	5.4 - 23.8	1,100	18.4	11.4 - 25.4	3,100
Any alcohol use, 3rd trimester†	7.3	4.2 - 10.4	2,700	--			--			12.1	6.1 - 18.1	2,100
Pregnancy Intention and Family Planning												
Mistimed or unwanted pregnancy	27.0	22.2 - 31.8	10,000	43.5	34.1 - 53.0	4,400	32.4	20.2 - 44.6	2,400	14.3	8.1 - 20.5	2,400
Unsure of pregnancy intentions	10.8	7.2 - 14.5	4,000	15.8	8.4 - 23.2	1,600	10.5 *	2.7 - 18.4	800	7.7 *	2.8 - 12.6	1,300
Postpartum birth control use†	78.1	73.1 - 83.0	28,500	76.0	66.9 - 85.1	7,500	75.2	63.4 - 87.1	5,600	79.8	72.5 - 87.1	13,500
Infant Sleep and Breastfeeding												
Placed infant on back to sleep	86.4	82.7 - 90.2	31,700	83.2	75.8 - 90.6	8,200	87.5 *	79.3 - 95.8	6,600	88.7	83.2 - 94.3	15,100
Infant always or often shared bed	28.7	23.1 - 34.3	10,500	38.7	29.1 - 48.3	3,700	23.3	11.5 - 35.0	1,700	25.6	16.6 - 34.6	4,400
Intended to breastfeed, before birth	91.6	88.1 - 95.1	33,600	91.3 *	86.1 - 96.5	9,000	93.3 *	87.2 - 99.3	7,000	90.3 *	84.1 - 96.6	15,300
Intended to breastfeed exclusively, before birth	60.3	54.4 - 66.1	22,100	53.8	44.1 - 63.4	5,300	53.3	39.7 - 66.8	4,000	67.5	58.4 - 76.5	11,500
Breastfeeding practices												
Any breastfeeding, 1 month after delivery	85.8	82.0 - 89.7	30,800	79.6	71.8 - 87.5	7,700	86.6 *	77.5 - 95.7	6,200	89.3	83.9 - 94.7	15,000
Exclusive breastfeeding, 1 month after delivery	39.9	33.9 - 45.9	14,100	30.5	21.5 - 39.4	2,800	41.4	28.0 - 54.8	3,000	45.5	35.9 - 55.1	7,500
Any breastfeeding, 3 months after delivery	76.1	70.8 - 81.3	20,300	60.3	49.6 - 71.0	4,700	82.8 *	71.3 - 94.3	4,500	83.5	76.6 - 90.5	9,600
Exclusive breastfeeding, 3 months after delivery	29.2	22.7 - 35.8	7,700	15.0 *	6.2 - 23.8	1,100	30.9	16.1 - 45.6	1,700	40.6	29.3 - 52.0	4,600



MIHA Data Snapshot, Orange County by Income, 2013-2015

Maternal and Infant Health Assessment (MIHA) Survey

	Orange County			0-100% Federal Poverty Guideline			101-200% Federal Poverty Guideline			> 200% Federal Poverty Guideline		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Service Utilization and Health Insurance Coverage												
Had a usual source of pre-pregnancy care	72.8	68.2 - 77.5	27,000	57.1	47.7 - 66.5	5,800	67.7	55.9 - 79.4	5,100	85.4	79.2 - 91.7	14,500
Initiated prenatal care in 1st trimester	93.4	90.5 - 96.2	34,400	88.7	83.5 - 93.9	8,700	--			--		
Mom or infant needed but couldn't afford care postpartum	7.5	4.9 - 10.1	2,700	17.6	10.9 - 24.2	1,700	9.4 *	1.2 - 17.6	700	--		
Participated in WIC during pregnancy†	43.0	38.6 - 47.4	15,500	90.5	84.9 - 96.1	9,100	58.4	45.2 - 71.7	4,400	3.6 *	1.2 - 6.1	600
Received CalFresh (food stamps) during pregnancy	15.5	11.9 - 19.1	5,700	45.4	35.8 - 55.0	4,600	10.0 *	2.0 - 17.9	800	--		
Pre-pregnancy insurance												
Medi-Cal	16.9	13.4 - 20.5	6,300	44.4	34.9 - 53.9	4,500	13.5 *	4.5 - 22.5	1,000	--		
Uninsured	19.3	15.8 - 22.8	7,200	45.2	35.8 - 54.7	4,600	26.4	16.2 - 36.6	2,000	--		
Private	60.4	56.3 - 64.5	22,400	7.4 *	1.5 - 13.2	700	50.3	37.2 - 63.4	3,800	96.0 *	93.3 - 98.6	16,400
Prenatal insurance												
Medi-Cal	38.1	34.3 - 41.8	14,100	93.6 *	87.9 - 99.4	9,400	42.3	30.0 - 54.7	3,200	3.1 *	0.9 - 5.3	500
Uninsured	--			--			--			--		
Private	57.9	53.7 - 62.0	21,400	--			42.7	29.4 - 56.0	3,200	95.6 *	93.1 - 98.2	16,300
Maternal postpartum insurance												
Medi-Cal	23.8	19.9 - 27.7	8,800	55.7	46.2 - 65.2	5,600	28.0	16.8 - 39.3	2,100	2.4 *	0.5 - 4.4	400
Uninsured	15.0	11.7 - 18.4	5,500	37.2	28.2 - 46.2	3,700	21.3	11.1 - 31.6	1,600	--		
Private	58.4	54.3 - 62.6	21,500	6.4 *	0.7 - 12.0	600	41.1	27.7 - 54.5	3,100	96.1 *	93.6 - 98.5	16,400
Infant health insurance												
Medi-Cal	42.4	38.1 - 46.6	15,400	95.8 *	92.3 - 99.3	9,400	58.9	45.6 - 72.1	4,300	3.1 *	1.0 - 5.3	500
Uninsured	0.8 *	0.0 - 1.6	300	--			--			--		
Private	54.2	49.9 - 58.6	19,800	--			32.2	19.4 - 45.1	2,400	95.6	93.1 - 98.2	16,300
Maternal Demographics												
Did not complete high school (or GED)	9.8	7.3 - 12.4	3,600	27.7	19.6 - 35.7	2,800	5.6 *	1.4 - 9.9	400	--		
Unmarried	27.9	23.4 - 32.3	10,300	67.2	58.3 - 76.1	6,800	23.0	12.7 - 33.3	1,700	6.9	3.1 - 10.6	1,200
Race/Ethnicity												
White	31.1	26.0 - 36.3	11,400	4.2 *	0.7 - 7.8	400	10.6 *	2.5 - 18.7	800	58.4	48.9 - 68.0	9,800
Hispanic	45.0	39.8 - 50.3	16,500	84.0	76.2 - 91.7	8,300	61.1	47.4 - 74.8	4,600	13.6	7.9 - 19.4	2,300
Asian/Pacific Islander	22.5	16.6 - 28.3	8,200	10.2 *	2.9 - 17.5	1,000	27.1	13.7 - 40.5	2,000	26.7	17.2 - 36.2	4,500
Black	1.4	1.0 - 1.7	500	1.6	0.9 - 2.3	200	1.2 *	0.5 - 1.9	<100	1.2	0.7 - 1.7	200
Born outside the U.S.	45.4	39.6 - 51.2	16,900	63.1	54.1 - 72.1	6,400	46.9	33.5 - 60.4	3,500	34.1	24.5 - 43.7	5,800
Speaks non-English language at home	33.9	28.4 - 39.3	12,300	57.4	48.0 - 66.8	5,700	48.1	34.6 - 61.7	3,600	15.3	7.7 - 22.8	2,500
Lives in a high poverty neighborhood	26.3	21.4 - 31.2	9,200	48.6	38.1 - 59.0	4,200	28.9	16.6 - 41.2	2,100	12.1	6.3 - 17.9	2,000

-- Estimate not shown because the relative standard error (RSE) is greater than 50%, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition may not be comparable to previous Snapshots (see Technical Notes).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2013-2015 were combined, resulting in a statewide sample size of 20,762. The sample size of Orange County was 550. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2013-2015. Population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey County and Regional Data Snapshots for Subgroups, 2013-2015. California Department of Public Health; 2018.



MIHA Data Snapshot, Orange County by Maternal Age, 2013-2015

Maternal and Infant Health Assessment (MIHA) Survey

	Orange County			15-19 Years			20-34 Years			35 Years or Older		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		37,200	4.2	2.6 - 5.9	1,600	72.1	66.5 - 77.7	26,800	23.7	18.2 - 29.2	8,800
Health Status before Pregnancy												
In good to excellent health	93.3	91.0 - 95.7	34,700	77.8 *	60.4 - 95.2	1,200	94.2	91.7 - 96.6	25,200	93.6 *	87.8 - 99.4	8,200
Chronic conditions												
Diabetes†	2.2 *	0.8 - 3.6	800	--			1.6 *	0.3 - 2.8	400	--		
Hypertension†	1.9 *	0.5 - 3.4	700	--			1.9 *	0.3 - 3.4	500	--		
Asthma†	7.1	4.5 - 9.7	2,600	--			8.6	5.2 - 12.0	2,300	--		
Nutrition and Weight												
Daily folic acid use, month before pregnancy	39.3	33.5 - 45.1	14,600	22.1 *	6.0 - 38.2	300	39.0	32.4 - 45.6	10,400	43.2	29.4 - 57.1	3,800
Overweight before pregnancy	21.8	17.0 - 26.7	7,800	--			23.5	17.7 - 29.2	6,000	19.0	8.8 - 29.2	1,600
Obese before pregnancy	15.3	11.1 - 19.5	5,500	--			14.2	9.7 - 18.6	3,600	21.0	9.8 - 32.1	1,800
Inadequate weight gain during pregnancy	20.3	15.1 - 25.5	6,500	--			21.7	15.6 - 27.9	5,000	17.1 *	6.3 - 27.9	1,300
Excessive weight gain during pregnancy	35.5	29.4 - 41.6	11,300	40.3	17.1 - 63.4	500	32.9	26.3 - 39.6	7,500	42.1	27.3 - 56.9	3,300
Food insecurity during pregnancy	11.7	8.6 - 14.7	4,300	19.6 *	4.3 - 34.9	300	12.2	8.6 - 15.8	3,200	8.5 *	2.1 - 15.0	800
Intimate Partner Violence (IPV) and Depressive Symptoms												
Physical or psychological IPV during pregnancy	5.8	3.3 - 8.4	2,100	28.9 *	10.2 - 47.7	400	4.6	2.2 - 6.9	1,200	--		
Prenatal depressive symptoms	14.9	10.9 - 18.9	5,500	20.2 *	3.7 - 36.7	300	12.6	8.8 - 16.4	3,400	20.9	8.9 - 32.9	1,800
Postpartum depressive symptoms	12.8	8.8 - 16.8	4,700	8.5 *	1.5 - 15.6	100	9.8	6.3 - 13.2	2,600	22.9	10.6 - 35.2	2,000
Hardships and Support during Pregnancy												
Experienced two or more hardships during childhood	23.0	18.3 - 27.8	8,200	32.7 *	13.3 - 52.0	500	23.7	18.2 - 29.1	6,000	19.3	8.6 - 30.0	1,600
Homeless or did not have a regular place to sleep	1.9 *	0.6 - 3.3	700	--			1.7 *	0.4 - 3.0	400	--		
Moved due to problems paying rent or mortgage	7.1	4.3 - 9.9	2,600	--			6.8	4.0 - 9.7	1,800	--		
Woman or partner lost job	10.9	8.1 - 13.8	3,900	21.9 *	3.2 - 40.7	300	11.5	8.0 - 14.9	3,000	7.5 *	2.6 - 12.4	700
Woman or partner had pay or hours cut back	14.0	9.9 - 18.1	5,100	19.3 *	1.9 - 36.6	300	13.3	9.2 - 17.4	3,400	15.2 *	4.0 - 26.4	1,300
Became separated or divorced	5.7	3.2 - 8.2	2,100	--			5.9	3.2 - 8.7	1,500	--		
Had no practical or emotional support	4.6	2.5 - 6.6	1,700	--			3.7	1.6 - 5.9	1,000	5.6 *	0.4 - 10.7	500
Substance Use												
Any smoking, 3 months before pregnancy	5.7	3.3 - 8.1	2,100	--			5.5	2.7 - 8.2	1,400	6.7 *	0.8 - 12.6	600
Any smoking, 3rd trimester†	--			--			--			--		
Any smoking, postpartum	1.8 *	0.4 - 3.3	700	--			--			--		
Any binge drinking, 3 months before pregnancy	14.5	10.5 - 18.6	5,300	--			16.2	11.4 - 21.0	4,300	11.8 *	2.8 - 20.7	1,000
Any alcohol use, 3rd trimester†	7.3	4.2 - 10.4	2,700	--			5.2	2.4 - 8.0	1,400	15.1 *	5.3 - 24.8	1,300
Pregnancy Intention and Family Planning												
Mistimed or unwanted pregnancy	27.0	22.2 - 31.8	10,000	73.5 *	56.7 - 90.2	1,200	26.3	20.8 - 31.8	7,000	21.0	10.3 - 31.7	1,800
Unsure of pregnancy intentions	10.8	7.2 - 14.5	4,000	--			9.9	6.0 - 13.7	2,600	14.5 *	4.8 - 24.2	1,300
Postpartum birth control use†	78.1	73.1 - 83.0	28,500	76.1 *	59.1 - 93.2	1,200	77.5	71.7 - 83.2	20,300	80.2	69.0 - 91.3	7,000
Infant Sleep and Breastfeeding												
Placed infant on back to sleep	86.4	82.7 - 90.2	31,700	88.8 *	80.1 - 97.5	1,400	85.2	80.9 - 89.6	22,500	89.6 *	81.1 - 98.2	7,900
Infant always or often shared bed	28.7	23.1 - 34.3	10,500	39.6	19.0 - 60.2	600	27.6	21.5 - 33.6	7,300	30.3	16.2 - 44.4	2,600
Intended to breastfeed, before birth	91.6	88.1 - 95.1	33,600	78.3 *	61.7 - 95.0	1,200	93.2	89.8 - 96.7	24,500	89.0 *	79.4 - 98.6	7,800
Intended to breastfeed exclusively, before birth	60.3	54.4 - 66.1	22,100	48.7	28.2 - 69.2	700	63.9	57.5 - 70.4	16,800	51.3	37.3 - 65.2	4,500
Breastfeeding practices												
Any breastfeeding, 1 month after delivery	85.8	82.0 - 89.7	30,800	77.2 *	58.1 - 96.3	1,100	84.4	79.5 - 89.2	21,700	91.6 *	85.8 - 97.5	8,000
Exclusive breastfeeding, 1 month after delivery	39.9	33.9 - 45.9	14,100	37.7	18.0 - 57.5	600	40.4	33.7 - 47.2	10,300	38.6	24.4 - 52.7	3,200
Any breastfeeding, 3 months after delivery	76.1	70.8 - 81.3	20,300	47.7	24.1 - 71.4	500	73.8	67.2 - 80.4	13,600	86.6 *	78.3 - 94.9	6,100
Exclusive breastfeeding, 3 months after delivery	29.2	22.7 - 35.8	7,700	--			28.1	20.8 - 35.5	5,200	35.6	20.0 - 51.2	2,400



MIHA Data Snapshot, Orange County by Maternal Age, 2013-2015

Maternal and Infant Health Assessment (MIHA) Survey

	Orange County			15-19 Years			20-34 Years			35 Years or Older		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Service Utilization and Health Insurance Coverage												
Had a usual source of pre-pregnancy care	72.8	68.2 - 77.5	27,000	60.4	40.7 - 80.2	900	71.4	65.9 - 76.8	19,000	79.5	69.5 - 89.6	7,000
Initiated prenatal care in 1st trimester	93.4	90.5 - 96.2	34,400	62.4	43.0 - 81.7	1,000	96.2	94.4 - 98.0	25,600	--		
Mom or infant needed but couldn't afford care postpartum	7.5	4.9 - 10.1	2,700	--			8.0	4.9 - 11.1	2,100	6.0*	0.6 - 11.4	500
Participated in WIC during pregnancy†	43.0	38.6 - 47.4	15,500	--			45.9	40.3 - 51.5	12,000	25.7	15.1 - 36.2	2,200
Received CalFresh (food stamps) during pregnancy	15.5	11.9 - 19.1	5,700	20.0*	3.4 - 36.5	300	16.3	12.0 - 20.5	4,300	12.6*	4.3 - 20.8	1,100
Pre-pregnancy insurance												
Medi-Cal	16.9	13.4 - 20.5	6,300	48.2	28.2 - 68.3	800	16.5	12.6 - 20.5	4,400	12.6*	3.3 - 21.9	1,100
Uninsured	19.3	15.8 - 22.8	7,200	36.3	16.9 - 55.7	600	19.7	15.5 - 23.9	5,300	15.2	7.1 - 23.3	1,300
Private	60.4	56.3 - 64.5	22,400	--			59.6	54.4 - 64.9	16,000	70.8	59.6 - 82.1	6,200
Prenatal insurance												
Medi-Cal	38.1	34.3 - 41.8	14,100	--			38.3	33.5 - 43.1	10,200	29.3	18.1 - 40.6	2,600
Uninsured	--			--			--			--		
Private	57.9	53.7 - 62.0	21,400	--			56.8	51.5 - 62.1	15,100	69.6	58.3 - 81.0	6,100
Maternal postpartum insurance												
Medi-Cal	23.8	19.9 - 27.7	8,800	67.2*	46.6 - 87.7	1,000	24.0	19.3 - 28.6	6,300	15.8*	6.0 - 25.5	1,400
Uninsured	15.0	11.7 - 18.4	5,500	--			15.2	11.2 - 19.3	4,000	14.8	7.0 - 22.6	1,300
Private	58.4	54.3 - 62.6	21,500	--			57.1	51.7 - 62.4	15,100	69.4	58.1 - 80.8	6,100
Infant health insurance												
Medi-Cal	42.4	38.1 - 46.6	15,400	--			43.9	38.4 - 49.5	11,500	28.8	17.6 - 39.9	2,500
Uninsured	0.8*	0.0 - 1.6	300	--			--			--		
Private	54.2	49.9 - 58.6	19,800	--			52.1	46.4 - 57.7	13,600	69.3	57.9 - 80.6	6,100
Maternal Demographics												
Did not complete high school (or GED)	9.8	7.3 - 12.4	3,600	21.5*	7.6 - 35.5	300	9.0	6.3 - 11.7	2,400	10.3*	3.3 - 17.2	900
Unmarried	27.9	23.4 - 32.3	10,300	72.4*	51.4 - 93.3	1,100	27.8	22.5 - 33.1	7,400	20.4	10.3 - 30.4	1,800
Race/Ethnicity												
White	31.1	26.0 - 36.3	11,400	--			31.3	25.2 - 37.4	8,300	35.1	22.3 - 47.9	3,000
Hispanic	45.0	39.8 - 50.3	16,500	--			46.2	39.9 - 52.5	12,200	32.8	20.7 - 44.9	2,800
Asian/Pacific Islander	22.5	16.6 - 28.3	8,200	--			21.1	14.8 - 27.4	5,600	30.9	16.1 - 45.6	2,700
Black	1.4	1.0 - 1.7	500	1.3*	0.0 - 2.6	<100	1.4	1.0 - 1.8	400	1.2*	0.4 - 2.1	100
Born outside the U.S.	45.4	39.6 - 51.2	16,900	24.0*	5.6 - 42.5	400	42.8	36.3 - 49.4	11,500	57.0	43.6 - 70.4	5,000
Speaks non-English language at home	33.9	28.4 - 39.3	12,300	19.8*	4.9 - 34.8	300	34.7	28.3 - 41.1	9,100	33.8	20.9 - 46.6	2,900
Lives in a high poverty neighborhood	26.3	21.4 - 31.2	9,200	41.1	21.3 - 60.9	500	29.2	23.1 - 35.3	7,400	15.0	6.7 - 23.3	1,200

-- Estimate not shown because the relative standard error (RSE) is greater than 50%, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

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MIHA Data Snapshot, Orange County by Neighborhood Poverty, 2013-2015

Maternal and Infant Health Assessment (MIHA) Survey

	Orange County			0-4.9% of Residents below Poverty			5-9.9% of Residents below Poverty			10-19.9% of Residents below Poverty			≥ 20% of Residents below Poverty		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		37,200	14.2	9.8 - 18.6	5,000	25.5	19.9 - 31.1	8,900	34.0	28.2 - 39.7	11,900	26.3	21.4 - 31.2	9,200
Health Status before Pregnancy															
In good to excellent health	93.3	91.0 - 95.7	34,700	--			94.9 *	90.5 - 99.4	8,500	93.3 *	89.1 - 97.6	11,100	90.4	84.9 - 95.9	8,300
Chronic conditions															
Diabetes†	2.2 *	0.8 - 3.6	800	--			--			--			--		
Hypertension†	1.9 *	0.5 - 3.4	700	--			--			--			--		
Asthma†	7.1	4.5 - 9.7	2,600	10.9 *	2.2 - 19.6	500	7.0 *	2.0 - 12.0	600	6.9 *	1.7 - 12.0	800	7.1 *	2.6 - 11.7	600
Nutrition and Weight															
Daily folic acid use, month before pregnancy	39.3	33.5 - 45.1	14,600	59.9	43.2 - 76.6	3,000	40.3	27.1 - 53.4	3,600	35.1	24.9 - 45.2	4,100	38.5	27.6 - 49.3	3,500
Overweight before pregnancy	21.8	17.0 - 26.7	7,800	23.1 *	6.4 - 39.8	1,100	18.3	8.5 - 28.2	1,600	20.2	12.3 - 28.0	2,200	24.6	15.9 - 33.3	2,200
Obese before pregnancy	15.3	11.1 - 19.5	5,500	9.1 *	2.0 - 16.2	400	14.9 *	5.3 - 24.5	1,300	14.5	7.5 - 21.4	1,600	19.0	9.9 - 28.1	1,700
Inadequate weight gain during pregnancy	20.3	15.1 - 25.5	6,500	8.1 *	0.2 - 15.9	400	14.7 *	5.7 - 23.8	1,200	22.0	12.4 - 31.6	2,300	30.5	19.0 - 42.1	2,300
Excessive weight gain during pregnancy	35.5	29.4 - 41.6	11,300	30.7	15.0 - 46.4	1,300	44.6	30.4 - 58.8	3,500	30.8	21.2 - 40.4	3,200	34.8	23.3 - 46.4	2,700
Food insecurity during pregnancy	11.7	8.6 - 14.7	4,300	--			8.7 *	2.3 - 15.0	800	15.0	8.8 - 21.2	1,800	14.2	7.9 - 20.5	1,300
Intimate Partner Violence (IPV) and Depressive Symptoms															
Physical or psychological IPV during pregnancy	5.8	3.3 - 8.4	2,100	--			--			5.7 *	0.5 - 10.9	600	7.0 *	2.4 - 11.6	600
Prenatal depressive symptoms	14.9	10.9 - 18.9	5,500	16.1 *	1.7 - 30.5	800	11.3	4.6 - 17.9	1,000	16.6	8.8 - 24.4	2,000	15.1	8.0 - 22.2	1,400
Postpartum depressive symptoms	12.8	8.8 - 16.8	4,700	--			10.8 *	3.5 - 18.0	1,000	15.0	6.8 - 23.1	1,800	10.8	5.2 - 16.5	1,000
Hardships and Support during Pregnancy															
Experienced two or more hardships during childhood	23.0	18.3 - 27.8	8,200	--			32.1	19.6 - 44.5	2,800	19.7	12.5 - 26.9	2,200	24.3	15.5 - 33.1	2,100
Homeless or did not have a regular place to sleep	1.9 *	0.6 - 3.3	700	--			--			2.5 *	0.3 - 4.6	300	--		
Moved due to problems paying rent or mortgage	7.1	4.3 - 9.9	2,600	--			--			7.5	3.6 - 11.4	900	6.7 *	0.9 - 12.4	600
Woman or partner lost job	10.9	8.1 - 13.8	3,900	--			4.8 *	0.9 - 8.6	400	15.5	9.1 - 21.9	1,800	12.4	6.8 - 18.0	1,100
Woman or partner had pay or hours cut back	14.0	9.9 - 18.1	5,100	--			18.1 *	6.7 - 29.4	1,600	16.5	9.8 - 23.2	1,900	10.5	5.0 - 15.9	900
Became separated or divorced	5.7	3.2 - 8.2	2,100	--			5.5 *	0.5 - 10.6	500	7.6 *	2.2 - 12.9	900	6.4 *	1.2 - 11.6	600
Had no practical or emotional support	4.6	2.5 - 6.6	1,700	--			--			5.4 *	1.3 - 9.4	600	5.1 *	0.6 - 9.6	500
Substance Use															
Any smoking, 3 months before pregnancy	5.7	3.3 - 8.1	2,100	--			7.5 *	1.8 - 13.3	700	4.7 *	1.4 - 8.0	500	7.5 *	1.1 - 13.8	700
Any smoking, 3rd trimester†	--			--			--			--			--		
Any smoking, postpartum	1.8 *	0.4 - 3.3	700	--			--			2.3 *	0.1 - 4.5	300	--		
Any binge drinking, 3 months before pregnancy	14.5	10.5 - 18.6	5,300	15.9 *	4.9 - 26.8	800	17.2 *	6.9 - 27.5	1,500	16.0	8.7 - 23.2	1,800	11.4	5.0 - 17.9	1,000
Any alcohol use, 3rd trimester†	7.3	4.2 - 10.4	2,700	5.5 *	0.3 - 10.6	300	14.6 *	4.8 - 24.5	1,300	6.6 *	2.0 - 11.3	800	--		
Pregnancy Intention and Family Planning															
Mistimed or unwanted pregnancy	27.0	22.2 - 31.8	10,000	12.7 *	4.0 - 21.5	600	26.3	15.3 - 37.2	2,300	27.4	18.7 - 36.1	3,200	32.9	23.1 - 42.7	3,000
Unsure of pregnancy intentions	10.8	7.2 - 14.5	4,000	13.7 *	0.5 - 26.8	700	6.9 *	1.0 - 12.8	600	14.4	7.0 - 21.9	1,700	8.8 *	3.5 - 14.2	800
Postpartum birth control use†	78.1	73.1 - 83.0	28,500	87.2 *	76.3 - 98.1	4,300	73.5	62.1 - 84.9	6,500	72.5	62.9 - 82.0	8,500	86.2	79.3 - 93.2	7,500
Infant Sleep and Breastfeeding															
Placed infant on back to sleep	86.4	82.7 - 90.2	31,700	84.9 *	72.1 - 97.7	4,200	90.2 *	83.6 - 96.7	7,900	83.1	75.6 - 90.6	9,800	87.2	80.7 - 93.6	7,800
Infant always or often shared bed	28.7	23.1 - 34.3	10,500	14.2 *	1.8 - 26.6	700	39.1	25.5 - 52.6	3,400	27.4	18.0 - 36.7	3,200	27.2	17.5 - 37.0	2,400
Intended to breastfeed, before birth	91.6	88.1 - 95.1	33,600	--			87.2 *	76.4 - 97.9	7,700	87.8	81.6 - 94.0	10,300	97.7 *	95.9 - 99.6	8,800
Intended to breastfeed exclusively, before birth	60.3	54.4 - 66.1	22,100	74.8 *	59.6 - 89.9	3,700	62.3	49.0 - 75.6	5,500	53.4	43.1 - 63.7	6,300	63.7	53.3 - 74.0	5,700
Breastfeeding practices															
Any breastfeeding, 1 month after delivery	85.8	82.0 - 89.7	30,800	85.3 *	73.1 - 97.6	4,100	94.9 *	90.4 - 99.4	8,000	84.7	77.9 - 91.5	9,900	80.5	71.5 - 89.5	7,200
Exclusive breastfeeding, 1 month after delivery	39.9	33.9 - 45.9	14,100	37.0	20.4 - 53.6	1,800	51.9	38.1 - 65.7	4,400	35.6	25.7 - 45.5	4,000	35.4	24.8 - 45.9	3,100
Any breastfeeding, 3 months after delivery	76.1	70.8 - 81.3	20,300	83.7 *	72.0 - 95.4	2,800	84.1 *	74.4 - 93.8	4,900	79.5	71.3 - 87.7	6,900	60.8	48.5 - 73.2	4,300
Exclusive breastfeeding, 3 months after delivery	29.2	22.7 - 35.8	7,700	36.3	15.4 - 57.2	1,200	41.9	26.0 - 57.9	2,500	26.7	16.3 - 37.1	2,200	16.4 *	6.0 - 26.8	1,100



MIHA Data Snapshot, Orange County by Neighborhood Poverty, 2013-2015

Maternal and Infant Health Assessment (MIHA) Survey

	Orange County			0-4.9% of Residents below Poverty			5-9.9% of Residents below Poverty			10-19.9% of Residents below Poverty			≥ 20% of Residents below Poverty		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Service Utilization and Health Insurance Coverage															
Had a usual source of pre-pregnancy care	72.8	68.2 - 77.5	27,000	85.6*	75.7 - 95.5	4,200	84.9*	75.9 - 93.9	7,500	63.3	53.8 - 72.8	7,500	68.7	59.6 - 77.8	6,300
Initiated prenatal care in 1st trimester	93.4	90.5 - 96.2	34,400	--			--			93.0	88.9 - 97.1	11,000	94.5*	91.1 - 98.0	8,600
Mom or infant needed but couldn't afford care postpartum	7.5	4.9 - 10.1	2,700	--			--			9.9	5.1 - 14.6	1,100	10.3*	3.1 - 17.6	900
Participated in WIC during pregnancy†	43.0	38.6 - 47.4	15,500	11.6*	2.6 - 20.6	500	16.2	8.3 - 24.2	1,400	51.5	41.8 - 61.3	6,100	67.1	56.8 - 77.5	6,000
Received CalFresh (food stamps) during pregnancy	15.5	11.9 - 19.1	5,700	--			7.9*	2.5 - 13.3	700	19.5	11.6 - 27.4	2,300	23.0	14.4 - 31.6	2,100
Pre-pregnancy insurance															
Medi-Cal	16.9	13.4 - 20.5	6,300	--			9.0*	2.9 - 15.1	800	20.6	12.9 - 28.2	2,400	22.6	14.5 - 30.7	2,100
Uninsured	19.3	15.8 - 22.8	7,200	--			8.3*	2.9 - 13.7	700	19.5	12.7 - 26.3	2,300	32.3	22.9 - 41.6	3,000
Private	60.4	56.3 - 64.5	22,400	90.5*	82.3 - 98.7	4,500	78.7	69.7 - 87.7	7,000	53.7	44.4 - 63.1	6,400	45.1	34.5 - 55.7	4,100
Prenatal insurance															
Medi-Cal	38.1	34.3 - 41.8	14,100	11.8*	3.2 - 20.4	600	18.7	10.6 - 26.8	1,700	39.4	30.6 - 48.2	4,700	59.3	48.5 - 70.2	5,400
Uninsured	--			--			--			--			--		
Private	57.9	53.7 - 62.0	21,400	88.2*	79.6 - 96.8	4,400	77.1	67.8 - 86.3	6,900	53.8	44.6 - 63.1	6,400	37.3	26.5 - 48.0	3,400
Maternal postpartum insurance															
Medi-Cal	23.8	19.9 - 27.7	8,800	9.1*	1.5 - 16.8	500	16.2	8.5 - 23.9	1,400	23.1	15.1 - 31.0	2,700	36.8	26.8 - 46.8	3,300
Uninsured	15.0	11.7 - 18.4	5,500	--			--			20.1	12.7 - 27.6	2,400	22.1	14.0 - 30.3	2,000
Private	58.4	54.3 - 62.6	21,500	89.3*	81.0 - 97.5	4,400	77.4	68.2 - 86.6	6,900	52.0	42.4 - 61.6	6,100	40.9	29.9 - 51.8	3,600
Infant health insurance															
Medi-Cal	42.4	38.1 - 46.6	15,400	11.2*	2.9 - 19.5	600	19.9	11.6 - 28.2	1,800	47.1	37.5 - 56.7	5,500	66.5	56.2 - 76.8	5,900
Uninsured	0.8*	0.0 - 1.6	300	--			--			--			--		
Private	54.2	49.9 - 58.6	19,800	88.8*	80.5 - 97.1	4,400	76.0	66.6 - 85.4	6,700	47.7	38.1 - 57.3	5,500	32.0	21.7 - 42.2	2,900
Maternal Demographics															
Age															
15-19	4.2	2.6 - 5.9	1,600	--			--			4.3*	1.2 - 7.5	500	6.0*	2.4 - 9.5	500
20-34	72.1	66.5 - 77.7	26,800	71.0	54.8 - 87.1	3,500	62.8	49.2 - 76.4	5,600	74.5	65.2 - 83.8	8,800	80.6	72.7 - 88.4	7,400
35+	23.7	18.2 - 29.2	8,800	27.5	11.4 - 43.7	1,400	35.0	21.3 - 48.6	3,100	21.2	12.0 - 30.3	2,500	13.5	6.3 - 20.6	1,200
Did not complete high school (or GED)	9.8	7.3 - 12.4	3,600	--			--			10.2	5.5 - 14.9	1,200	17.4	10.5 - 24.3	1,600
Unmarried	27.9	23.4 - 32.3	10,300	8.9*	2.0 - 15.9	400	15.2	7.6 - 22.8	1,400	34.6	25.4 - 43.9	4,100	40.6	30.2 - 51.1	3,600
Race/Ethnicity															
White	31.1	26.0 - 36.3	11,400	59.8	42.3 - 77.3	3,000	43.7	30.6 - 56.7	3,900	30.0	20.6 - 39.5	3,500	11.0*	3.8 - 18.1	1,000
Hispanic	45.0	39.8 - 50.3	16,500	10.7*	1.8 - 19.6	500	26.4	15.9 - 36.9	2,400	49.0	39.0 - 59.1	5,700	69.7	58.8 - 80.5	6,400
Asian/Pacific Islander	22.5	16.6 - 28.3	8,200	29.3*	11.5 - 47.1	1,500	28.5	14.9 - 42.0	2,500	19.0	9.8 - 28.2	2,200	18.1	8.0 - 28.2	1,700
Black	1.4	1.0 - 1.7	500	--			1.4*	0.6 - 2.3	100	1.8	1.0 - 2.7	200	1.2*	0.5 - 2.0	100
Born outside the U.S.	45.4	39.6 - 51.2	16,900	30.2	12.6 - 47.7	1,500	41.0	27.3 - 54.8	3,700	43.7	33.6 - 53.7	5,200	53.2	42.5 - 64.0	4,900
Speaks non-English language at home	33.9	28.4 - 39.3	12,300	13.6*	1.2 - 25.9	700	17.1*	6.3 - 27.9	1,500	39.4	29.2 - 49.5	4,600	48.9	37.9 - 59.9	4,400
Income as a percent of the Federal Poverty Guideline															
0-100%	29.1	24.9 - 33.3	10,100	--			9.4*	3.0 - 15.7	800	30.5	21.7 - 39.3	3,500	50.4	39.3 - 61.5	4,200
101-200%	21.7	16.6 - 26.8	7,500	14.5*	0.9 - 28.1	600	16.1	7.2 - 24.9	1,400	27.3	17.5 - 37.1	3,100	25.1	14.6 - 35.7	2,100
> 200%	49.2	44.1 - 54.3	17,100	82.4*	68.5 - 96.2	3,600	74.5	64.2 - 84.9	6,300	42.2	32.2 - 52.2	4,800	24.4	14.4 - 34.5	2,000

-- Estimate not shown because the relative standard error (RSE) is greater than 50%, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition may not be comparable to previous Snapshots (see Technical Notes).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2013-2015 were combined, resulting in a statewide sample size of 20,762. The sample size of Orange County was 550. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2013-2015. Population estimate (N) is a three-year average. Neighborhood poverty is the percentage of residents with incomes below poverty in a woman's census tract. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.



MIHA Data Snapshot, Orange County by Prenatal Health Insurance, 2013-2015

Maternal and Infant Health Assessment (MIHA) Survey

	Orange County			Medi-Cal			Private		
	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		37,200	38.1	34.3 - 41.8	14,100	57.9	53.7 - 62.0	21,400
Health Status before Pregnancy									
In good to excellent health	93.3	91.0 - 95.7	34,700	87.2	82.1 - 92.3	12,300	97.8 *	95.9 - 99.7	20,900
Chronic conditions									
Diabetes†	2.2 *	0.8 - 3.6	800	3.6 *	0.5 - 6.7	500	--		
Hypertension†	1.9 *	0.5 - 3.4	700	--			3.1 *	0.5 - 5.6	700
Asthma†	7.1	4.5 - 9.7	2,600	5.9	2.5 - 9.3	800	8.3	4.3 - 12.2	1,800
Nutrition and Weight									
Daily folic acid use, month before pregnancy	39.3	33.5 - 45.1	14,600	27.3	19.9 - 34.8	3,800	46.6	38.1 - 55.1	10,000
Overweight before pregnancy	21.8	17.0 - 26.7	7,800	27.7	20.5 - 34.8	3,500	18.9	12.1 - 25.6	4,000
Obese before pregnancy	15.3	11.1 - 19.5	5,500	19.1	12.6 - 25.5	2,400	14.0	8.2 - 19.8	3,000
Inadequate weight gain during pregnancy	20.3	15.1 - 25.5	6,500	26.9	18.1 - 35.6	2,900	16.4	10.1 - 22.7	3,300
Excessive weight gain during pregnancy	35.5	29.4 - 41.6	11,300	35.6	27.3 - 43.9	3,800	34.7	26.2 - 43.2	6,900
Food insecurity during pregnancy	11.7	8.6 - 14.7	4,300	22.4	16.0 - 28.8	3,100	3.5 *	1.2 - 5.9	800
Intimate Partner Violence (IPV) and Depressive Symptoms									
Physical or psychological IPV during pregnancy	5.8	3.3 - 8.4	2,100	14.0	8.1 - 19.9	1,900	--		
Prenatal depressive symptoms	14.9	10.9 - 18.9	5,500	25.3	17.9 - 32.7	3,500	7.2 *	2.8 - 11.5	1,500
Postpartum depressive symptoms	12.8	8.8 - 16.8	4,700	19.1	12.2 - 26.0	2,700	9.6	4.6 - 14.6	2,100
Hardships and Support during Pregnancy									
Experienced two or more hardships during childhood	23.0	18.3 - 27.8	8,200	30.0	22.6 - 37.5	4,000	18.6	12.2 - 24.9	3,800
Homeless or did not have a regular place to sleep	1.9 *	0.6 - 3.3	700	5.2 *	1.5 - 8.8	700	--		
Moved due to problems paying rent or mortgage	7.1	4.3 - 9.9	2,600	11.3	7.1 - 15.5	1,600	4.7 *	0.6 - 8.7	1,000
Woman or partner lost job	10.9	8.1 - 13.8	3,900	19.3	13.6 - 25.0	2,600	5.8	2.7 - 8.8	1,200
Woman or partner had pay or hours cut back	14.0	9.9 - 18.1	5,100	19.4	13.1 - 25.8	2,600	10.9	5.3 - 16.5	2,300
Became separated or divorced	5.7	3.2 - 8.2	2,100	12.0	6.2 - 17.8	1,700	1.9 *	0.2 - 3.7	400
Had no practical or emotional support	4.6	2.5 - 6.6	1,700	10.8	5.8 - 15.8	1,500	--		
Substance Use									
Any smoking, 3 months before pregnancy	5.7	3.3 - 8.1	2,100	6.7 *	2.5 - 10.9	900	5.1 *	2.0 - 8.2	1,100
Any smoking, 3rd trimester†	--			--			--		
Any smoking, postpartum	1.8 *	0.4 - 3.3	700	--			--		
Any binge drinking, 3 months before pregnancy	14.5	10.5 - 18.6	5,300	11.9	7.2 - 16.5	1,600	15.6	9.5 - 21.7	3,300
Any alcohol use, 3rd trimester†	7.3	4.2 - 10.4	2,700	1.9 *	0.3 - 3.6	300	11.4	6.1 - 16.6	2,400
Pregnancy Intention and Family Planning									
Mistimed or unwanted pregnancy	27.0	22.2 - 31.8	10,000	39.8	32.1 - 47.4	5,600	18.1	11.9 - 24.3	3,900
Unsure of pregnancy intentions	10.8	7.2 - 14.5	4,000	15.1	9.0 - 21.2	2,100	8.0	3.5 - 12.5	1,700
Postpartum birth control use†	78.1	73.1 - 83.0	28,500	77.9	70.8 - 84.9	10,800	78.7	71.8 - 85.6	16,600
Infant Sleep and Breastfeeding									
Placed infant on back to sleep	86.4	82.7 - 90.2	31,700	84.3	78.9 - 89.7	11,600	89.1	84.1 - 94.1	19,000
Infant always or often shared bed	28.7	23.1 - 34.3	10,500	36.7	28.8 - 44.6	5,000	23.1	15.3 - 30.9	4,900
Intended to breastfeed, before birth	91.6	88.1 - 95.1	33,600	93.6	90.0 - 97.2	12,900	90.3	84.9 - 95.7	19,300
Intended to breastfeed exclusively, before birth	60.3	54.4 - 66.1	22,100	53.7	45.7 - 61.7	7,400	64.8	56.5 - 73.2	13,800
Breastfeeding practices									
Any breastfeeding, 1 month after delivery	85.8	82.0 - 89.7	30,800	78.6	72.0 - 85.2	10,400	91.4	87.0 - 95.7	19,300
Exclusive breastfeeding, 1 month after delivery	39.9	33.9 - 45.9	14,100	32.2	25.0 - 39.3	4,200	43.8	35.1 - 52.5	9,000
Any breastfeeding, 3 months after delivery	76.1	70.8 - 81.3	20,300	62.0	53.1 - 70.8	6,500	86.8	81.3 - 92.4	13,200
Exclusive breastfeeding, 3 months after delivery	29.2	22.7 - 35.8	7,700	13.5	7.4 - 19.6	1,400	38.1	28.1 - 48.1	5,800



MIHA Data Snapshot, Orange County by Prenatal Health Insurance, 2013-2015

Maternal and Infant Health Assessment (MIHA) Survey

	Orange County				Medi-Cal				Private			
	%	95% CI		N	%	95% CI		N	%	95% CI		N
Service Utilization and Health Insurance Coverage												
Had a usual source of pre-pregnancy care	72.8	68.2 - 77.5		27,000	53.2	45.3 - 61.1		7,500	85.8	80.0 - 91.6		18,300
Initiated prenatal care in 1st trimester	93.4	90.5 - 96.2		34,400	90.6	86.8 - 94.4		12,500	95.6 *	91.4 - 99.7		20,400
Mom or infant needed but couldn't afford care postpartum	7.5	4.9 - 10.1		2,700	15.8	10.5 - 21.1		2,100	--			
Participated in WIC during pregnancy†	43.0	38.6 - 47.4		15,500	85.0	79.1 - 90.9		11,900	13.4	7.8 - 19.1		2,800
Received CalFresh (food stamps) during pregnancy	15.5	11.9 - 19.1		5,700	37.1	29.4 - 44.8		5,200	--			
Pre-pregnancy insurance												
Medi-Cal	16.9	13.4 - 20.5		6,300	44.5	36.6 - 52.3		6,300	--			
Uninsured	19.3	15.8 - 22.8		7,200	48.1	40.2 - 55.9		6,800	--			
Private	60.4	56.3 - 64.5		22,400	5.3	2.4 - 8.2		700	--			
Maternal postpartum insurance												
Medi-Cal	23.8	19.9 - 27.7		8,800	60.5	52.8 - 68.1		8,400	--			
Uninsured	15.0	11.7 - 18.4		5,500	36.9	29.4 - 44.4		5,100	--			
Private	58.4	54.3 - 62.6		21,500	2.1 *	0.3 - 3.8		300	--			
Infant health insurance												
Medi-Cal	42.4	38.1 - 46.6		15,400	95.1 *	92.1 - 98.0		13,000	8.5	3.6 - 13.5		1,800
Uninsured	0.8 *	0.0 - 1.6		300	2.2 *	0.1 - 4.3		300	--			
Private	54.2	49.9 - 58.6		19,800	--				91.5	86.5 - 96.4		19,500
Maternal Demographics												
Age												
15-19	4.2	2.6 - 5.9		1,600	9.3	5.6 - 12.9		1,300	--			
20-34	72.1	66.5 - 77.7		26,800	72.4	64.9 - 79.9		10,200	70.6	62.4 - 78.8		15,100
35+	23.7	18.2 - 29.2		8,800	18.3	11.1 - 25.6		2,600	28.6	20.5 - 36.8		6,100
Did not complete high school (or GED)	9.8	7.3 - 12.4		3,600	24.2	17.8 - 30.5		3,400	--			
Unmarried	27.9	23.4 - 32.3		10,300	56.7	48.8 - 64.7		8,000	9.9	5.4 - 14.4		2,100
Race/Ethnicity												
White	31.1	26.0 - 36.3		11,400	7.4	3.7 - 11.1		1,000	47.4	38.8 - 55.9		10,000
Hispanic	45.0	39.8 - 50.3		16,500	77.6	70.2 - 85.1		10,800	24.0	16.9 - 31.1		5,100
Asian/Pacific Islander	22.5	16.6 - 28.3		8,200	13.5	6.4 - 20.6		1,900	27.3	18.8 - 35.8		5,800
Black	1.4	1.0 - 1.7		500	1.5	1.0 - 2.0		200	1.3	0.8 - 1.8		300
Born outside the U.S.	45.4	39.6 - 51.2		16,900	62.4	55.1 - 69.8		8,800	34.6	26.1 - 43.2		7,400
Speaks non-English language at home	33.9	28.4 - 39.3		12,300	56.4	48.7 - 64.1		7,900	18.2	11.1 - 25.4		3,800
Lives in a high poverty neighborhood	26.3	21.4 - 31.2		9,200	43.6	35.2 - 52.0		5,400	16.0	10.0 - 22.0		3,400
Income as a percent of the Federal Poverty Guideline												
0-100%	29.1	24.9 - 33.3		10,100	71.8	64.2 - 79.4		9,400	--			
101-200%	21.7	16.6 - 26.8		7,500	24.2	16.8 - 31.6		3,200	16.1	9.6 - 22.5		3,200
> 200%	49.2	44.1 - 54.3		17,100	4.0 *	1.2 - 6.9		500	81.5	74.7 - 88.3		16,300

-- Estimate not shown because the relative standard error (RSE) is greater than 50%, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%)

† Measure/definition may not be comparable to previous Snapshots (see Technical Notes).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2013-2015 were combined, resulting in a statewide sample size of 20,762. The sample size of Orange County was 550. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2013-2015. Population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey County and Regional Data Snapshots for Subgroups, 2013-2015. California Department of Public Health; 2018.



MIHA Data Snapshot, Orange County by Race/Ethnicity, 2013-2015

Maternal and Infant Health Assessment (MIHA) Survey

	Orange County			Hispanic			Black			White			Asian/Pacific Islander		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		37,200	45.0	39.8 - 50.3	16,500	1.4	1.0 - 1.7	500	31.1	26.0 - 36.3	11,400	22.5	16.6 - 28.3	8,200
Health Status before Pregnancy															
In good to excellent health	93.3	91.0 - 95.7	34,700	87.9	83.2 - 92.6	14,500	93.7*	88.0 - 99.4	500	97.0*	94.2 - 99.9	11,100	--		
Chronic conditions															
Diabetes†	2.2*	0.8 - 3.6	800	4.1*	1.1 - 7.1	700	--			--			--		
Hypertension†	1.9*	0.5 - 3.4	700	--			5.7*	0.3 - 11.1	<100	--			--		
Asthma†	7.1	4.5 - 9.7	2,600	7.3	3.7 - 11.0	1,200	11.9*	4.0 - 19.9	<100	11.3	4.9 - 17.6	1,300	--		
Nutrition and Weight															
Daily folic acid use, month before pregnancy	39.3	33.5 - 45.1	14,600	31.6	24.2 - 39.0	5,200	46.5	32.2 - 60.9	200	48.8	38.2 - 59.4	5,600	43.7	28.2 - 59.3	3,600
Overweight before pregnancy	21.8	17.0 - 26.7	7,800	29.1	21.8 - 36.4	4,500	27.5	14.2 - 40.8	100	12.5	6.1 - 18.9	1,400	19.3*	6.7 - 31.9	1,500
Obese before pregnancy	15.3	11.1 - 19.5	5,500	20.2	13.9 - 26.5	3,100	23.0	9.9 - 36.0	100	11.7	5.1 - 18.3	1,300	11.8*	1.2 - 22.4	900
Inadequate weight gain during pregnancy	20.3	15.1 - 25.5	6,500	19.7	12.9 - 26.5	2,600	12.8	5.7 - 19.8	<100	19.7	10.8 - 28.7	2,100	21.2*	8.0 - 34.4	1,500
Excessive weight gain during pregnancy	35.5	29.4 - 41.6	11,300	38.8	30.2 - 47.3	5,100	45.1	31.0 - 59.3	200	35.9	25.8 - 46.0	3,900	29.6	13.9 - 45.3	2,100
Food insecurity during pregnancy	11.7	8.6 - 14.7	4,300	21.4	15.3 - 27.4	3,500	10.8*	3.8 - 17.8	<100	4.1*	0.9 - 7.3	500	--		
Intimate Partner Violence (IPV) and Depressive Symptoms															
Physical or psychological IPV during pregnancy	5.8	3.3 - 8.4	2,100	9.5	5.0 - 13.9	1,500	8.8*	0.8 - 16.7	<100	--			--		
Prenatal depressive symptoms	14.9	10.9 - 18.9	5,500	20.8	14.8 - 26.8	3,400	20.7*	8.0 - 33.5	100	5.0*	1.3 - 8.7	600	15.2*	3.3 - 27.2	1,300
Postpartum depressive symptoms	12.8	8.8 - 16.8	4,700	17.0	10.8 - 23.2	2,800	17.6*	4.6 - 30.6	<100	4.8*	1.4 - 8.2	500	14.0*	2.8 - 25.2	1,100
Hardships and Support during Pregnancy															
Experienced two or more hardships during childhood	23.0	18.3 - 27.8	8,200	28.8	22.1 - 35.6	4,500	39.6	25.2 - 54.1	200	18.9	10.2 - 27.6	2,200	17.9*	6.3 - 29.5	1,300
Homeless or did not have a regular place to sleep	1.9*	0.6 - 3.3	700	2.3*	0.5 - 4.1	400	7.9*	2.0 - 13.7	<100	--			--		
Moved due to problems paying rent or mortgage	7.1	4.3 - 9.9	2,600	9.3	5.5 - 13.1	1,500	11.4*	3.7 - 19.0	<100	--			--		
Woman or partner lost job	10.9	8.1 - 13.8	3,900	16.5	11.4 - 21.6	2,600	16.8*	6.1 - 27.5	<100	7.2*	2.6 - 11.8	800	5.8*	0.9 - 10.8	500
Woman or partner had pay or hours cut back	14.0	9.9 - 18.1	5,100	16.0	10.8 - 21.2	2,500	22.2*	8.2 - 36.1	100	13.8	5.9 - 21.7	1,600	10.8*	0.7 - 20.9	900
Became separated or divorced	5.7	3.2 - 8.2	2,100	9.5	5.3 - 13.8	1,500	9.9*	3.1 - 16.8	<100	--			--		
Had no practical or emotional support	4.6	2.5 - 6.6	1,700	9.4	4.9 - 13.8	1,500	--			--			--		
Substance Use															
Any smoking, 3 months before pregnancy	5.7	3.3 - 8.1	2,100	5.6*	2.1 - 9.1	900	13.7*	2.3 - 25.0	<100	6.5*	1.8 - 11.1	700	--		
Any smoking, 3rd trimester†	--			--			--			--			--		
Any smoking, postpartum	1.8*	0.4 - 3.3	700	--			--			--			--		
Any binge drinking, 3 months before pregnancy	14.5	10.5 - 18.6	5,300	15.6	9.9 - 21.4	2,500	12.9*	4.7 - 21.0	<100	17.0	9.2 - 24.8	1,900	--		
Any alcohol use, 3rd trimester†	7.3	4.2 - 10.4	2,700	2.9*	0.3 - 5.4	500	7.9*	0.3 - 15.4	<100	17.6	9.0 - 26.2	2,000	--		
Pregnancy Intention and Family Planning															
Mistimed or unwanted pregnancy	27.0	22.2 - 31.8	10,000	39.1	31.5 - 46.6	6,400	36.1	21.5 - 50.8	200	21.3	12.7 - 29.9	2,400	9.7*	2.5 - 17.0	800
Unsure of pregnancy intentions	10.8	7.2 - 14.5	4,000	10.4	6.2 - 14.6	1,700	16.6	7.9 - 25.2	<100	8.6*	2.6 - 14.6	1,000	13.1*	2.5 - 23.7	1,100
Postpartum birth control use†	78.1	73.1 - 83.0	28,500	78.8	72.2 - 85.5	12,800	74.1	61.1 - 87.2	300	83.2	74.9 - 91.4	9,400	67.8	53.8 - 81.7	5,400
Infant Sleep and Breastfeeding															
Placed infant on back to sleep	86.4	82.7 - 90.2	31,700	82.4	76.6 - 88.2	13,300	76.7	63.9 - 89.6	400	93.4*	88.7 - 98.0	10,600	87.0*	77.2 - 96.9	7,000
Infant always or often shared bed	28.7	23.1 - 34.3	10,500	27.6	20.9 - 34.3	4,400	40.5	26.3 - 54.7	200	16.5	8.0 - 25.0	1,900	49.4	33.7 - 65.1	4,000
Intended to breastfeed, before birth	91.6	88.1 - 95.1	33,600	92.9	89.2 - 96.5	15,000	86.3*	75.8 - 96.9	400	91.0*	84.6 - 97.4	10,300	--		
Intended to breastfeed exclusively, before birth	60.3	54.4 - 66.1	22,100	57.7	50.1 - 65.3	9,300	70.5	57.7 - 83.2	300	76.2	67.4 - 85.1	8,600	42.0	26.9 - 57.1	3,400
Breastfeeding practices															
Any breastfeeding, 1 month after delivery	85.8	82.0 - 89.7	30,800	83.6	78.0 - 89.2	13,200	79.6	68.2 - 91.0	400	83.7	76.0 - 91.4	9,500	--		
Exclusive breastfeeding, 1 month after delivery	39.9	33.9 - 45.9	14,100	38.0	30.2 - 45.9	5,900	47.3	32.6 - 62.1	200	50.1	39.3 - 61.0	5,500	26.7	12.0 - 41.4	2,100
Any breastfeeding, 3 months after delivery	76.1	70.8 - 81.3	20,300	69.4	61.5 - 77.3	8,500	67.8	53.3 - 82.3	300	78.1	69.0 - 87.1	6,500	--		
Exclusive breastfeeding, 3 months after delivery	29.2	22.7 - 35.8	7,700	21.8	13.4 - 30.2	2,700	28.5	13.7 - 43.2	100	47.2	34.5 - 59.9	3,800	--		



MIHA Data Snapshot, Orange County by Race/Ethnicity, 2013-2015

Maternal and Infant Health Assessment (MIHA) Survey

	Orange County			Hispanic			Black			White			Asian/Pacific Islander		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Service Utilization and Health Insurance Coverage															
Had a usual source of pre-pregnancy care	72.8	68.2 - 77.5	27,000	62.6	55.4 - 69.7	10,200	71.1	59.0 - 83.3	400	85.8	79.0 - 92.5	9,800	80.4	69.2 - 91.5	6,600
Initiated prenatal care in 1st trimester	93.4	90.5 - 96.2	34,400	91.3	87.6 - 94.9	15,000	87.8*	78.9 - 96.8	400	--	--	--	--	--	--
Mom or infant needed but couldn't afford care postpartum	7.5	4.9 - 10.1	2,700	14.4	8.9 - 19.8	2,300	13.1	5.8 - 20.4	<100	--	--	--	--	--	--
Participated in WIC during pregnancy†	43.0	38.6 - 47.4	15,500	76.5	69.9 - 83.0	12,400	48.3	37.6 - 59.0	200	9.2	4.1 - 14.4	1,000	23.5	10.9 - 36.0	1,800
Received CalFresh (food stamps) during pregnancy	15.5	11.9 - 19.1	5,700	26.2	19.5 - 32.8	4,300	22.2	11.8 - 32.5	100	5.3*	1.8 - 8.8	600	9.0*	0.6 - 17.5	700
Pre-pregnancy insurance															
Medi-Cal	16.9	13.4 - 20.5	6,300	26.6	20.5 - 32.8	4,400	24.3	13.3 - 35.3	100	5.4*	1.6 - 9.1	600	12.1*	2.3 - 21.8	1,000
Uninsured	19.3	15.8 - 22.8	7,200	36.8	29.9 - 43.8	6,100	16.7	7.0 - 26.4	<100	3.7*	0.9 - 6.4	400	--	--	--
Private	60.4	56.3 - 64.5	22,400	33.3	25.9 - 40.7	5,500	56.2	42.8 - 69.7	300	87.5	81.8 - 93.2	10,000	77.2	65.1 - 89.4	6,400
Prenatal insurance															
Medi-Cal	38.1	34.3 - 41.8	14,100	65.5	58.1 - 72.9	10,800	42.3	30.1 - 54.4	200	9.0	4.6 - 13.4	1,000	23.1	11.1 - 35.1	1,900
Uninsured	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Private	57.9	53.7 - 62.0	21,400	30.7	23.4 - 38.1	5,100	55.1	42.5 - 67.8	300	87.5	82.0 - 93.1	10,000	71.1	57.6 - 84.6	5,800
Maternal postpartum insurance															
Medi-Cal	23.8	19.9 - 27.7	8,800	36.3	29.2 - 43.3	5,900	34.8	22.9 - 46.7	200	7.1	3.1 - 11.1	800	21.0	9.5 - 32.6	1,700
Uninsured	15.0	11.7 - 18.4	5,500	30.9	24.1 - 37.8	5,000	9.2*	2.7 - 15.7	<100	--	--	--	--	--	--
Private	58.4	54.3 - 62.6	21,500	30.3	23.0 - 37.7	4,900	53.3	40.5 - 66.1	300	88.4	82.9 - 93.8	10,100	72.8	60.1 - 85.5	5,900
Infant health insurance															
Medi-Cal	42.4	38.1 - 46.6	15,400	71.9	64.9 - 78.9	11,500	47.3	35.0 - 59.7	200	8.3	4.1 - 12.5	900	31.5	17.7 - 45.3	2,500
Uninsured	0.8*	0.0 - 1.6	300	--	--	--	--	--	--	--	--	--	--	--	--
Private	54.2	49.9 - 58.6	19,800	23.0	16.3 - 29.8	3,700	48.9	36.2 - 61.6	200	88.2	82.8 - 93.7	10,100	68.5	54.7 - 82.3	5,400
Maternal Demographics															
Age															
15-19	4.2	2.6 - 5.9	1,600	8.8	5.1 - 12.4	1,400	4.2*	0.4 - 8.0	<100	--	--	--	--	--	--
20-34	72.1	66.5 - 77.7	26,800	74.1	67.1 - 81.0	12,200	74.2	61.5 - 87.0	400	72.5	62.8 - 82.3	8,300	67.6	52.1 - 83.2	5,600
35+	23.7	18.2 - 29.2	8,800	17.2	10.7 - 23.6	2,800	21.6	9.1 - 34.1	100	26.5	16.8 - 36.3	3,000	32.4	16.8 - 47.9	2,700
Did not complete high school (or GED)															
Unmarried	9.8	7.3 - 12.4	3,600	20.4	15.0 - 25.7	3,300	6.5*	1.4 - 11.5	<100	--	--	--	--	--	--
Born outside the U.S.	27.9	23.4 - 32.3	10,300	48.7	41.0 - 56.4	8,000	41.4	28.4 - 54.4	200	12.1	6.2 - 17.9	1,400	9.0*	0.7 - 17.3	700
Speaks non-English language at home	45.4	39.6 - 51.2	16,900	50.2	42.7 - 57.7	8,300	24.2	12.3 - 36.0	100	14.2	6.2 - 22.3	1,600	78.5	67.5 - 89.4	6,500
Lives in a high poverty neighborhood	33.9	28.4 - 39.3	12,300	44.9	37.3 - 52.5	7,400	17.0*	6.6 - 27.4	<100	5.1*	0.5 - 9.8	600	53.3	37.1 - 69.4	4,100
Income as a percent of the Federal Poverty Guideline															
0-100%	29.1	24.9 - 33.3	10,100	54.7	46.8 - 62.5	8,300	35.4	23.0 - 47.7	200	3.8*	0.7 - 6.9	400	13.4*	3.7 - 23.1	1,000
101-200%	21.7	16.6 - 26.8	7,500	30.3	22.5 - 38.1	4,600	19.9	9.7 - 30.1	<100	7.3*	1.7 - 12.9	800	27.2	13.0 - 41.3	2,000
> 200%	49.2	44.1 - 54.3	17,100	15.0	9.2 - 20.8	2,300	44.7	31.8 - 57.7	200	88.9	82.7 - 95.1	9,800	59.5	44.0 - 74.9	4,500

-- Estimate not shown because the relative standard error (RSE) is greater than 50%, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition may not be comparable to previous Snapshots (see Technical Notes).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2013-2015 were combined, resulting in a statewide sample size of 20,762. The sample size of Orange County was 550. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2013-2015. Population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

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MIHA Data Snapshot, Orange County by Total Live Births, 2013-2015

Maternal and Infant Health Assessment (MIHA) Survey

	Orange County			First Live Birth			Second Live Birth or More		
	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		37,200	40.9	35.1 - 46.7	15,200	59.1	53.3 - 64.9	22,000
Health Status before Pregnancy									
In good to excellent health	93.3	91.0 - 95.7	34,700	92.5	88.7 - 96.3	14,100	93.9	90.9 - 97.0	20,600
Chronic conditions									
Diabetes†	2.2 *	0.8 - 3.6	800	1.9 *	0.1 - 3.7	300	2.4 *	0.3 - 4.5	500
Hypertension†	1.9 *	0.5 - 3.4	700	3.2 *	0.1 - 6.3	500	--		
Asthma†	7.1	4.5 - 9.7	2,600	7.6	3.6 - 11.6	1,100	6.7	3.3 - 10.2	1,500
Nutrition and Weight									
Daily folic acid use, month before pregnancy	39.3	33.5 - 45.1	14,600	44.1	35.0 - 53.1	6,700	36.0	28.4 - 43.5	7,900
Overweight before pregnancy	21.8	17.0 - 26.7	7,800	17.8	11.1 - 24.5	2,700	24.7	18.0 - 31.5	5,100
Obese before pregnancy	15.3	11.1 - 19.5	5,500	10.9	5.6 - 16.2	1,600	18.5	12.4 - 24.6	3,800
Inadequate weight gain during pregnancy	20.3	15.1 - 25.5	6,500	21.3	13.3 - 29.2	2,800	19.6	12.9 - 26.4	3,700
Excessive weight gain during pregnancy	35.5	29.4 - 41.6	11,300	31.9	23.1 - 40.7	4,100	37.9	29.7 - 46.2	7,200
Food insecurity during pregnancy	11.7	8.6 - 14.7	4,300	10.1	5.7 - 14.6	1,500	12.7	8.5 - 16.9	2,800
Intimate Partner Violence (IPV) and Depressive Symptoms									
Physical or psychological IPV during pregnancy	5.8	3.3 - 8.4	2,100	7.0	3.4 - 10.7	1,000	5.0 *	1.5 - 8.5	1,100
Prenatal depressive symptoms	14.9	10.9 - 18.9	5,500	8.9	5.0 - 12.7	1,300	19.0	12.8 - 25.2	4,200
Postpartum depressive symptoms	12.8	8.8 - 16.8	4,700	9.1	4.2 - 14.0	1,400	15.4	9.6 - 21.2	3,400
Hardships and Support during Pregnancy									
Experienced two or more hardships during childhood	23.0	18.3 - 27.8	8,200	27.0	18.9 - 35.1	3,900	20.3	14.5 - 26.1	4,300
Homeless or did not have a regular place to sleep	1.9 *	0.6 - 3.3	700	--			2.3 *	0.2 - 4.4	500
Moved due to problems paying rent or mortgage	7.1	4.3 - 9.9	2,600	7.2 *	2.3 - 12.0	1,100	7.0	3.6 - 10.4	1,500
Woman or partner lost job	10.9	8.1 - 13.8	3,900	11.9	7.1 - 16.6	1,700	10.3	6.6 - 14.0	2,200
Woman or partner had pay or hours cut back	14.0	9.9 - 18.1	5,100	15.7	9.0 - 22.3	2,300	12.8	7.8 - 17.9	2,700
Became separated or divorced	5.7	3.2 - 8.2	2,100	5.4 *	2.2 - 8.6	800	5.9 *	2.3 - 9.6	1,300
Had no practical or emotional support	4.6	2.5 - 6.6	1,700	2.2 *	0.3 - 4.0	300	6.2	3.0 - 9.4	1,400
Substance Use									
Any smoking, 3 months before pregnancy	5.7	3.3 - 8.1	2,100	9.4	4.3 - 14.6	1,400	3.2 *	1.2 - 5.3	700
Any smoking, 3rd trimester†	--			--			--		
Any smoking, postpartum	1.8 *	0.4 - 3.3	700	--			--		
Any binge drinking, 3 months before pregnancy	14.5	10.5 - 18.6	5,300	28.2	19.8 - 36.5	4,200	5.1	2.5 - 7.7	1,100
Any alcohol use, 3rd trimester†	7.3	4.2 - 10.4	2,700	9.5 *	3.5 - 15.5	1,400	5.9	2.7 - 9.0	1,300
Pregnancy Intention and Family Planning									
Mistimed or unwanted pregnancy	27.0	22.2 - 31.8	10,000	31.0	23.2 - 38.8	4,700	24.3	18.1 - 30.4	5,300
Unsure of pregnancy intentions	10.8	7.2 - 14.5	4,000	5.7 *	2.0 - 9.4	900	14.4	8.9 - 19.9	3,200
Postpartum birth control use†	78.1	73.1 - 83.0	28,500	73.0	65.0 - 81.0	10,800	81.5	75.2 - 87.8	17,700
Infant Sleep and Breastfeeding									
Placed infant on back to sleep	86.4	82.7 - 90.2	31,700	89.9	85.3 - 94.6	13,400	84.1	78.6 - 89.5	18,300
Infant always or often shared bed	28.7	23.1 - 34.3	10,500	27.6	19.3 - 36.0	4,100	29.5	22.0 - 37.0	6,400
Intended to breastfeed, before birth	91.6	88.1 - 95.1	33,600	91.1 *	85.8 - 96.5	13,500	91.9	87.3 - 96.5	20,000
Intended to breastfeed exclusively, before birth	60.3	54.4 - 66.1	22,100	64.7	56.0 - 73.4	9,600	57.2	49.4 - 65.1	12,500
Breastfeeding practices									
Any breastfeeding, 1 month after delivery	85.8	82.0 - 89.7	30,800	82.1	75.2 - 89.1	11,900	88.4	83.9 - 92.8	18,900
Exclusive breastfeeding, 1 month after delivery	39.9	33.9 - 45.9	14,100	35.8	26.9 - 44.7	5,200	42.7	34.7 - 50.7	8,900
Any breastfeeding, 3 months after delivery	76.1	70.8 - 81.3	20,300	63.8	54.0 - 73.6	6,500	83.7	78.0 - 89.4	13,800
Exclusive breastfeeding, 3 months after delivery	29.2	22.7 - 35.8	7,700	24.6	15.5 - 33.8	2,600	32.3	23.3 - 41.3	5,100



MIHA Data Snapshot, Orange County by Total Live Births, 2013-2015

Maternal and Infant Health Assessment (MIHA) Survey

	Orange County				First Live Birth				Second Live Birth or More			
	%	95% CI		N	%	95% CI		N	%	95% CI		N
Service Utilization and Health Insurance Coverage												
Had a usual source of pre-pregnancy care	72.8	68.2 - 77.5		27,000	65.3	57.0 - 73.7		9,900	78.0	72.7 - 83.3		17,100
Initiated prenatal care in 1st trimester	93.4	90.5 - 96.2		34,400	93.9	90.7 - 97.1		14,100	93.0 *	88.7 - 97.3		20,200
Mom or infant needed but couldn't afford care postpartum	7.5	4.9 - 10.1		2,700	3.8	1.6 - 6.0		600	10.1	5.9 - 14.2		2,100
Participated in WIC during pregnancy†	43.0	38.6 - 47.4		15,500	42.1	34.0 - 50.3		6,300	43.6	37.1 - 50.2		9,300
Received CalFresh (food stamps) during pregnancy	15.5	11.9 - 19.1		5,700	10.8	5.3 - 16.4		1,600	18.7	13.8 - 23.7		4,100
Pre-pregnancy insurance												
Medi-Cal	16.9	13.4 - 20.5		6,300	11.7	7.4 - 16.0		1,800	20.6	15.1 - 26.0		4,500
Uninsured	19.3	15.8 - 22.8		7,200	19.1	13.5 - 24.7		2,900	19.5	14.4 - 24.6		4,300
Private	60.4	56.3 - 64.5		22,400	66.7	59.9 - 73.5		10,100	56.0	49.4 - 62.6		12,300
Prenatal insurance												
Medi-Cal	38.1	34.3 - 41.8		14,100	32.0	25.4 - 38.5		4,800	42.3	36.0 - 48.5		9,300
Uninsured	--				--				--			
Private	57.9	53.7 - 62.0		21,400	63.5	56.2 - 70.8		9,500	54.0	47.4 - 60.6		11,900
Maternal postpartum insurance												
Medi-Cal	23.8	19.9 - 27.7		8,800	21.3	15.4 - 27.1		3,200	25.5	19.6 - 31.4		5,600
Uninsured	15.0	11.7 - 18.4		5,500	12.5	7.1 - 18.0		1,900	16.7	12.2 - 21.3		3,700
Private	58.4	54.3 - 62.6		21,500	64.6	57.3 - 72.0		9,600	54.2	47.7 - 60.8		11,900
Infant health insurance												
Medi-Cal	42.4	38.1 - 46.6		15,400	38.3	30.6 - 46.0		5,700	45.2	38.5 - 51.8		9,700
Uninsured	0.8 *	0.0 - 1.6		300	--				--			
Private	54.2	49.9 - 58.6		19,800	59.1	51.3 - 66.9		8,800	50.9	44.1 - 57.7		11,000
Maternal Demographics												
Age												
15-19	4.2	2.6 - 5.9		1,600	10.1	6.1 - 14.0		1,500	--			
20-34	72.1	66.5 - 77.7		26,800	75.9	68.4 - 83.4		11,500	69.4	61.7 - 77.2		15,300
35+	23.7	18.2 - 29.2		8,800	14.0	7.2 - 20.8		2,100	30.4	22.6 - 38.2		6,700
Did not complete high school (or GED)	9.8	7.3 - 12.4		3,600	5.7	3.0 - 8.4		900	12.7	8.7 - 16.6		2,800
Unmarried	27.9	23.4 - 32.3		10,300	34.2	26.5 - 41.9		5,100	23.5	17.8 - 29.3		5,200
Race/Ethnicity												
White	31.1	26.0 - 36.3		11,400	34.1	25.5 - 42.6		5,100	29.1	22.3 - 35.9		6,300
Hispanic	45.0	39.8 - 50.3		16,500	41.7	33.3 - 50.1		6,300	47.3	40.0 - 54.7		10,200
Asian/Pacific Islander	22.5	16.6 - 28.3		8,200	22.6	14.0 - 31.2		3,400	22.4	14.5 - 30.3		4,800
Black	1.4	1.0 - 1.7		500	1.7	1.0 - 2.4		300	1.1	0.7 - 1.5		200
Born outside the U.S.	45.4	39.6 - 51.2		16,900	37.6	28.6 - 46.6		5,700	50.8	43.1 - 58.4		11,100
Speaks non-English language at home	33.9	28.4 - 39.3		12,300	28.3	19.6 - 36.9		4,100	37.6	30.4 - 44.9		8,200
Lives in a high poverty neighborhood	26.3	21.4 - 31.2		9,200	27.1	19.3 - 34.9		4,000	25.7	19.2 - 32.2		5,200
Income as a percent of the Federal Poverty Guideline												
0-100%	29.1	24.9 - 33.3		10,100	24.2	17.7 - 30.6		3,400	32.5	26.0 - 38.9		6,700
101-200%	21.7	16.6 - 26.8		7,500	18.5	10.9 - 26.2		2,600	23.9	17.0 - 30.7		4,900
> 200%	49.2	44.1 - 54.3		17,100	57.3	48.7 - 65.8		8,100	43.6	36.2 - 51.0		9,000

-- Estimate not shown because the relative standard error (RSE) is greater than 50%, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%)

† Measure/definition may not be comparable to previous Snapshots (see Technical Notes).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2013-2015 were combined, resulting in a statewide sample size of 20,762. The sample size of Orange County was 550. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2013-2015. Population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

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