

A Birth Cohort Study of Involvement with Child Protective Services before Age 5

Merced County, California

INTRODUCTION

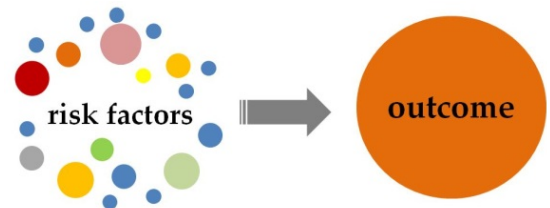
Much of what we know—or think we know—about risk factors for child abuse and neglect is based on cross-sectional and retrospective studies of children reported for maltreatment. Although these studies are useful for identifying and describing children reported for maltreatment, substantiated as victims, or placed in foster care, they do not offer information needed to understand how these children may (or may not) differ from other children in our communities. Without data concerning this broader population of children, we are unable to determine whether children with a particular combination of risk factors might have been identified or prioritized for early intervention services to prevent the conditions that led to involvement with child protective services.

Fortunately, the linkage and thoughtful configuration of administrative records can provide the necessary data for prevention focused studies. By linking CPS records to birth records from California, it is possible to answer prospective, population-based questions and generate information concerning the likelihood that children will be reported, substantiated, or placed in foster care because of maltreatment. In addition to providing information about the full population of children born in a given county and at risk of CPS involvement, birth records also include information not typically captured in administrative child protection systems, including infant weight at birth, maternal education, and whether paternity was established. Combining birth and CPS records allows us to better understand children involved with our local child protection systems and highlights opportunities

for being more strategic in our allocation and delivery of early intervention services.

Retrospective vs. Prospective Designs

The difference between a retrospective and prospective study design is a critical yet often misunderstood distinction. In a study with a retrospective design, individuals are sampled or studied because the outcome of interest has already occurred (e.g., a child has already been maltreated). They are selected based on the dependent variable. In contrast, a prospective study design identifies individuals who are at risk of the outcome and then follows them over time to see who does (and does not) experience the outcome. Prospective study designs can be employed using already collected, longitudinal administrative data.



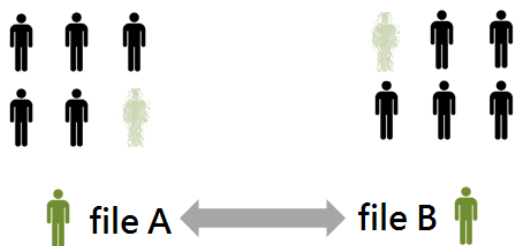
METHODOLOGY

This report series details findings from a project in which the birth records of all children born in California in 2006 and 2007 were matched to statewide child protection records through each child's fifth birthday. These linked records were then analyzed by county, allowing us to describe the characteristics of children at birth and generate longitudinal, cumulative estimates of how many children were involved with CPS during the first 5 years of life. Additionally, these data provide an opportunity to examine child- and family-level characteristics at a population level, helping us to identify attributes that are most

strongly correlated with later CPS-involvement. In this report, we document findings for Merced County, California.

Record Linkages 101

Quite simply, record linkage involves matching and integrating information about individuals (or other entities) from different data systems. An inherent limitation of administrative data is the scope of information contained in any one system. By linking records, it is possible to better understand the characteristics and trajectories of children over time and across service systems.



FINDINGS

Characteristics of Children Born (Table 1)

Table 1 presents descriptive information collected at birth for infants born during calendar years 2006 and 2007 in Merced County. The total number (N) of births and the percentage (%) of the county's full birth cohort are reported for different characteristics at birth. Given the strong relationship between socioeconomic status and CPS involvement, we also present this same descriptive information based on whether the cost of birth was covered by private or public health insurance.

- Between 2006 and 2007, 6,804 children were born.
- Although prenatal care began during the first trimester for a majority of children, 3,238 children (47.6%) were born to mothers who received prenatal care that started late or not at all.
- A plurality of children (68.9%) were born to Latina mothers (30.5%-U.S. born and 38.4%-foreign born).
- A total of 14.8% of children were born to teen mothers.

- 4,713 births were paid for by public health insurance, 69.3% of all children born.
- Paternity was missing for 12% of children overall, but 14.3% among births covered by public health insurance compared with 6.9% of births covered by nonpublic insurance.

Selected Variables

- ✓ **Birth Weight**
A measure of infant weight at the time of birth. Low birth weight is defined as <2500 grams.
- ✓ **Prenatal Care**
A measure of the trimester that prenatal care began. Late prenatal care is defined as care that began after the first trimester or not at all.
- ✓ **Paternity Establishment**
A measure of whether paternity was established at birth through the legal naming of a father on the birth record.
- ✓ **Number of Births**
A measure of the number of live births to this mother. If this was a first birth, it was coded as one.
- ✓ **Prior Pregnancy Terminations**
A measure of whether or not the mother had terminated any earlier pregnancies.
- ✓ **Birth Payment Method**
A measure of how the birth was paid for. Non-public includes private health insurance companies and self-pay. Public refers to Medi-Cal and other forms of public health insurance coverage. In California, mothers who give birth without health insurance coverage are retroactively enrolled in a public program.

Cumulative Number of Children Reported for Alleged Abuse or Neglect before Age 5 (Table 2)

Table 2 presents the cumulative number (N) and percentage (%) of children born in 2006 and 2007 who were reported to CPS for alleged abuse or neglect before age 5. These data are stratified by the sociodemographic and health characteristics listed in Table 1. Additionally, we present unadjusted and adjusted risk ratios (RRs) to compare the likelihood that children with different characteristics were reported to CPS before age 5. These estimates of relative risk are accompanied by 95% confidence intervals (95% CI); statistical significance is reported and described in the table endnotes.

- 1,471 children were reported to CPS for alleged child abuse or neglect before the age of 5, 21.6% of children.
- Notable differences emerged in the likelihood of being reported to CPS. Overall, 32.4% of children who were low birth weight (< 2500g) were reported compared to 21.1% of children who were not. In relative terms, that meant that a low-birth-weight child had a 53.0% greater likelihood of being reported for abuse or neglect (RR: 1.53***; 95% CI: 1.29, 1.82). After adjusting for other factors, the heightened risk associated with low birth weight diminished in magnitude, but was still statistically significant (RR: 1.23*; 95% CI: 1.02, 1.47).
- An inverse relationship was observed between a child's risk of being reported for alleged maltreatment and maternal age. Among children born to teen mothers, 31.1% were reported. In contrast, only 14.8% of children born to a mother age 30 or older were reported. Before adjusting for other factors, children of teen mothers were more than 2 times as likely

to be reported to CPS as were those born to mothers 30 and older (RR: 2.10***; 95% CI: 1.82, 2.43).

Cumulative Number of Children with Substantiated Reports of Abuse or Neglect before Age 5 (Table 3)

Table 3 presents the cumulative number (N) and percentage (%) of children born in 2006 and 2007 who were substantiated as victims of abuse or neglect before age 5. These data are separated by sociodemographic and health characteristics. Unadjusted and adjusted RRs (and 95% CIs) are used to compare the likelihood of substantiation across children with different characteristics. Statistical significance is reported and described in the table endnotes.

- 520 children were substantiated as victims of abuse or neglect before age 5, 7.6% of all children born.
- Notable differences emerged in the likelihood of being substantiated as victims. Among children whose births were covered by public insurance, 9.4% were substantiated as victims of maltreatment before age 5, compared to 3.7% among children with non-public insurance. Before adjusting for other factors, public insurance was associated with a 2.5 times greater risk of substantiation (RR: 2.51***; 95% CI: 1.99, 3.18). In the adjusted model, the risk ratio was attenuated (or weaker), but the relative difference was still large (RR: 1.87***; 95% CI: 1.47, 2.36).
- Risk of substantiated maltreatment varied with the commencement of prenatal care. Although representing only a small percentage of births overall, nearly 1 in 4 children with no recorded prenatal care were subsequently substantiated for abuse or neglect, 5 times the rate of children whose prenatal care began during the first trimester before adjusting for other factors (RR: 5.04***; 95% CI: 4.01, 6.34) and nearly 2.5 times greater after adjustments were made (RR: 2.41***; 95% CI: 1.91, 3.05).

Unadjusted and Adjusted Risk Ratios

In this report, risk is conceptualized as the statistical likelihood that a child will experience various levels of involvement with child protective services (i.e., reported, substantiated, entered foster care).

A risk ratio (RR) is a measure used to compare risk across children with different characteristics. An unadjusted RR provides a simple comparison of the likelihood that a child in group A was reported, substantiated, or entered foster care versus a child in group B.

An adjusted RR attempts to isolate the measureable relationship of a particular factor to the outcome. Adjusted RRs estimate relative differences in the likelihood that a child in group A was reported, substantiated, or entered foster care compared to a child in group B, while holding constant the influence of other factors.

An RR of 1.0 (or a 95% confidence interval that includes 1.0) indicates that there is no discernible difference in risk between group A and B. An RR larger than 1.0 indicates that group A has a greater risk than group B. Meanwhile an RR of less than 1.0 indicates that group A has a lower risk than group B.

Cumulative Number of Children Placed in Foster Care before Age 5 (Table 4)

Table 4 presents the cumulative number (N) and percentage (%) of children born in 2006 and 2007 who entered an out-of-home foster care placement before age 5. These data are divided by sociodemographic and health characteristics. Unadjusted and adjusted RRs (and 95% CIs) are used to compare the likelihood of foster care entry across children with different characteristics. Statistical significance is reported and described in the table endnotes.

- 264 children spent time in foster care before age 5. This represents 3.9% of all children born.
- Characteristic differences emerged in the likelihood of being placed in foster care. Maternal education was strongly correlated with the likelihood of foster care placement before age 5. The cumulative percentage of children placed in foster care across levels of maternal education ranged from 2.3% of children born to those with some college compared to 4.9% of children whose mothers had not finished high school.
- Among children for whom paternity was not established, 13.6% entered foster care at some point before age 5. The comparable share of children entering foster care was 2.6% among those with established paternity. Overall, missing paternity was associated with a 5 times greater risk of foster care placement (RR: 5.32***; 95% CI: 4.22, 6.72). After adjusting for other factors, the observed risk of foster care placement for children with missing paternity remained nearly 3 times that of children with established paternity (RR: 2.73***; 95% CI: 2.12, 3.51).

County Comparison Findings (Table 5)

Table 5 serves as a summary table for California and all 58 counties, presenting the overall number of births (N) as well as the cumulative percentage (%) of children reported to CPS, substantiated as victims of maltreatment, and entering foster care before age 5.

- Overall, 1,085,745 children were born in California in 2006 and 2007.
- Infants born in Merced County represented 0.6% of births statewide.
- In California, 14.8% of children were reported to CPS, 5.1% were substantiated as victims of abuse or neglect, and 2.2% spent time in foster care before age 5.
- The cumulative percentage of children reported for alleged abuse or neglect ranged from less than 8.0% to more than 30.0% across California counties.
- The cumulative percentage of children substantiated as victims of abuse or neglect varied by county, from less than 2.0% to more than 16.0% of all children born.
- Across counties, the percentage of children who spent time in foster care before reaching their fifth birthday ranged from less than 0.5% to more than 7.0%.

Merced County Quick Facts

Percentage of Children Reported to CPS before Age 5



Percentage of Children Substantiated before Age 5



Percentage of Children Entering Foster Care before Age 5



IMPLICATIONS

Linked data for Merced County underscore that annual counts of children reported for maltreatment, substantiated as victims, and placed in foster care dramatically understate the number of children involved with the child protection system over time. In Merced, official cross-sectional data from 2013 indicate that 8.5% of children under age 5 were reported for maltreatment. However, when we longitudinally follow children from birth through age 5—data from the present report indicate that 21.6% of children were reported—significantly more children than previously appreciated.

Research increasingly points to children under age 5 as a population acutely vulnerable to the consequences of maltreatment. A better understanding of the sociodemographic and health characteristics of children most likely to experience abuse or neglect between birth and age 5 is critical to improving and garnering support for prevention efforts. Population-level knowledge concerning the distribution of risk can be leveraged to enable a strategic and equitable

matching of public resources to community need. Linked records can be used to develop automated triaging tools to ensure our most vulnerable children and families are prioritized for scarce service intervention slots.

AUTHORS

Emily Putnam-Hornstein, PhD

Michael Mitchell, PhD

Ivy Hammond, BA

ACKNOWLEDGMENTS

We would like to thank First 5 LA for their generous funding of this report and ongoing support for the linkage of data. We would also like to acknowledge colleagues at the California Department of Social Services, the California Child Welfare Indicators Project, and the Children's Data Network for assistance in the preparation of data underlying these analyses and in the development of this report.

QUESTIONS?

Emily Putnam-Hornstein (ehornste@usc.edu)

Children's Data Network

www.datanetwork.org

This research brief was published by The Children's Data Network, a university, agency, and community collaborative focused on the integration and application of data to inform programs and policies for children and their families. The Children's Data Network is funded by First 5 LA and the Conrad N. Hilton Foundation, housed at USC's School of Social Work, and includes a partnership with the California Child Welfare Indicators Project at UC Berkeley. The content of this brief is the sole responsibility of the authors and does not necessarily represent the opinions of the funders or other partners.

© 2014, Children's Data Network, University of Southern California



Table 1. Characteristics of Children born in Merced County by Birth Payment Method

	Full Birth Cohort		Birth Payment Method			
	2006 & 2007		Public		Non-Public	
	N	%	N	%	N	%
Gender						
Female	3,256	47.9	2,288	48.6	968	46.3
Male	3,548	52.2	2,425	51.5	1,123	53.7
Birth Weight						
Normal	6,511	95.7	4,530	96.1	1,981	94.7
Low	293	4.3	183	3.9	110	5.3
Birth Abnormality						
None	6,556	96.4	4,539	96.3	2,017	96.5
One or More	248	3.6	174	3.7	74	3.5
Prenatal Care						
1st Trimester	3,566	52.4	2,259	47.9	1,307	62.5
2nd Trimester	2,231	32.8	1,658	35.2	573	27.4
3rd Trimester	665	9.8	533	11.3	132	6.3
None/Missing	342	5.0	263	5.6	79	3.8
Paternity Establishment						
Established	5,988	88.0	4,041	85.7	1,947	93.1
Missing	816	12.0	672	14.3	144	6.9
Maternal Race/Ethnicity						
White	1,596	23.5	791	16.8	805	38.5
Black	250	3.7	205	4.4	45	2.2
Latina, US-born	2,077	30.5	1,432	30.4	645	30.9
Latina, Foreign-born	2,613	38.4	2,144	45.5	469	22.4
Asian/Pacific Islander	246	3.6	124	2.6	122	5.8
Native American	<10	--	--	--	--	--
Maternal Age						
≤ 19 yrs	1,008	14.8	837	17.8	171	8.2
20-24 yrs	2,154	31.7	1,658	35.2	496	23.7
25-29 yrs	1,829	26.9	1,187	25.2	642	30.7
30+ yrs	1,813	26.7	1,031	21.9	782	37.4
Maternal Education						
< HS	2,738	40.2	2,355	50.0	383	18.3
HS or GED	2,272	33.4	1,592	33.8	680	32.5
Some College	1,381	20.3	708	15.0	673	32.2
College+	413	6.1	58	1.2	355	17.0
Number of Births						
One	2,299	33.8	1,569	33.3	730	34.9
Two	1,871	27.5	1,230	26.1	641	30.7
Three+	2,634	38.7	1,914	40.6	720	34.4
Prior Pregnancy Terminations						
None	5,447	80.1	3,784	80.3	1,663	79.5
One+	1,357	19.9	929	19.7	428	20.5
Birth Payment Method						
Non-Public	2,091	30.7	--	--	--	--
Public	4,713	69.3	--	--	--	--

Table Notes:

1. Cell sizes < 10 masked as indicated by [--]
2. Table based on the full population of children born in a given county in 2006 and 2007

Table 2. Characteristics & Comparisons of Children born in Merced County and Reported to CPS

	Reported to CPS		Risk Comparisons			
	Before Age 5		Unadjusted		Adjusted	
	N	%	RR	95% CI	RR	95% CI
Gender						
Female	718	22.1	ref.	---	ref.	---
Male	753	21.2	0.96	(0.88, 1.05)	0.97	(0.89, 1.06)
Birth Weight						
Normal	1,376	21.1	ref.	---	ref.	---
Low	95	32.4	1.53***	(1.29, 1.82)	1.23*	(1.02, 1.47)
Birth Abnormality						
None	1,391	21.2	ref.	---	ref.	---
One or More	80	32.3	1.52***	(1.26, 1.83)	1.12	(0.93, 1.36)
Prenatal Care						
1st Trimester	605	17.0	ref.	---	ref.	---
2nd Trimester	514	23.0	1.36***	(1.22, 1.51)	1.08	(0.98, 1.20)
3rd Trimester	194	29.2	1.72***	(1.50, 1.98)	1.24**	(1.09, 1.41)
None/Missing	158	46.2	2.72***	(2.38, 3.12)	1.63***	(1.42, 1.86)
Paternity Establishment						
Established	1,120	18.7	ref.	---	ref.	---
Missing	351	43.0	2.30***	(2.09, 2.53)	1.50***	(1.36, 1.65)
Maternal Race/Ethnicity						
White	414	25.9	--	--	--	--
Black	121	48.4	--	--	--	--
Latina, US-born	585	28.2	--	--	--	--
Latina, Foreign-born	305	11.7	--	--	--	--
Asian/Pacific Islander	37	15.0	--	--	--	--
Native American	<10	--	--	--	--	--
Maternal Age						
≤ 19 yrs	313	31.1	2.10***	(1.82, 2.43)	1.84***	(1.54, 2.19)
20-24 yrs	530	24.6	1.66***	(1.46, 1.90)	1.40***	(1.22, 1.60)
25-29 yrs	360	19.7	1.33***	(1.15, 1.54)	1.19**	(1.04, 1.36)
30+ yrs	268	14.8	ref.	---	ref.	---
Maternal Education						
< HS	653	23.9	--	--	--	--
HS or GED	587	25.8	--	--	--	--
Some College	222	16.1	--	--	--	--
College+	<10	--	--	--	--	--
Number of Births						
One	421	18.3	ref.	---	ref.	---
Two	363	19.4	1.06	(0.93, 1.20)	1.34***	(1.18, 1.52)
Three+	687	26.1	1.42***	(1.28, 1.59)	1.96***	(1.72, 2.24)
Prior Pregnancy Terminations						
None	1,156	21.2	ref.	---	ref.	---
One+	315	23.2	1.09	(0.98, 1.22)	1.03	(0.93, 1.14)
Birth Payment Method						
Non-Public	244	11.7	ref.	---	ref.	---
Public	1,227	26.0	2.23***	(1.96, 2.53)	1.77***	(1.56, 2.02)

Table Notes:

1. RR = Risk Ratio; 95% CI = 95% Confidence Interval; ref = Reference group for Risk Ratio calculations; [---] indicates no corresponding statistic given reference group status.
2. Cell sizes < 10 masked as indicated by [--]; statistical significance denoted as: *P* < .05*; *P* < .01**; *P* < .001***.

Table 3. Characteristics and Comparisons of Children born in Merced County and Substantiated

	Substantiated		Risk Comparisons			
	Before Age 5		Unadjusted		Adjusted	
	N	%	RR	95% CI	RR	95% CI
Gender						
Female	250	7.7	ref.	---	ref.	---
Male	270	7.6	0.99	(0.84,1.17)	0.98	(0.84,1.14)
Birth Weight						
Normal	482	7.4	ref.	---	ref.	---
Low	38	13.0	1.75***	(1.29,2.39)	1.31	(0.94,1.82)
Birth Abnormality						
None	490	7.5	ref.	---	ref.	---
One or More	30	12.1	1.62**	(1.14,2.29)	1.01	(0.69,1.48)
Prenatal Care						
1st Trimester	182	5.1	ref.	---	ref.	---
2nd Trimester	174	7.8	1.53***	(1.25,1.87)	1.13	(0.93,1.37)
3rd Trimester	76	11.4	2.24***	(1.74,2.89)	1.41**	(1.11,1.80)
None/Missing	88	25.7	5.04***	(4.01,6.34)	2.41***	(1.91,3.05)
Paternity Establishment						
Established	346	5.8	ref.	---	ref.	---
Missing	174	21.3	3.69***	(3.12,4.36)	2.12***	(1.78,2.51)
Maternal Race/Ethnicity						
White	184	11.5	--	--	--	--
Black	40	16.0	--	--	--	--
Latina, US-born	207	10.0	--	--	--	--
Latina, Foreign-born	68	2.6	--	--	--	--
Asian/Pacific Islander	14	5.7	--	--	--	--
Native American	<10	--	--	--	--	--
Maternal Age						
≤ 19 yrs	111	11.0	2.32***	(1.77,3.04)	2.33***	(1.67,3.25)
20-24 yrs	183	8.5	1.79***	(1.40,2.30)	1.50**	(1.18,1.92)
25-29 yrs	140	7.7	1.61***	(1.24,2.09)	1.40**	(1.10,1.79)
30+ yrs	86	4.7	ref.	---	ref.	---
Maternal Education						
< HS	248	9.1	--	--	--	--
HS or GED	201	8.9	--	--	--	--
Some College	71	5.1	--	--	--	--
College+	<10	--	--	--	--	--
Number of Births						
One	121	5.3	ref.	---	ref.	---
Two	123	6.6	1.25	(0.98,1.59)	1.71***	(1.33,2.21)
Three+	276	10.5	1.99***	(1.62,2.45)	2.96***	(2.28,3.84)
Prior Pregnancy Terminations						
None	388	7.1	ref.	---	ref.	---
One+	132	9.7	1.37**	(1.13,1.65)	1.21*	(1.01,1.45)
Birth Payment Method						
Non-Public	78	3.7	ref.	---	ref.	---
Public	442	9.4	2.51***	(1.99,3.18)	1.87***	(1.47,2.36)

Table Notes:

1. RR = Risk Ratio; 95% CI = 95% Confidence Interval; ref = Reference group for Risk Ratio calculations; [---] indicates no corresponding statistic given reference group status.
2. Cell sizes < 10 masked as indicated by [--]; statistical significance denoted as: *P* < .05*; *P* < .01**; *P* < .001***.

Table 4. Characteristics and Comparisons of Children born in Merced County and Placed in Foster Care

	Placed in Care		Risk Comparisons			
	Before Age 5		Unadjusted		Adjusted	
	N	%	RR	95% CI	RR	95% CI
Gender						
Female	121	3.7	ref.	---	ref.	---
Male	143	4.0	1.08	(0.86,1.38)	1.05	(0.83,1.32)
Birth Weight						
Normal	241	3.7	ref.	---	ref.	---
Low	23	7.9	2.12***	(1.41,3.20)	1.50	(0.94,2.39)
Birth Abnormality						
None	249	3.8	ref.	---	ref.	---
One or More	15	6.1	1.59	(0.96,2.64)	0.83	(0.46,1.51)
Prenatal Care						
1st Trimester	79	2.2	ref.	---	ref.	---
2nd Trimester	85	3.8	1.72***	(1.27,2.33)	1.19	(0.89,1.60)
3rd Trimester	40	6.0	2.72***	(1.87,3.94)	1.57*	(1.09,2.28)
None/Missing	60	17.5	7.92***	(5.77,10.87)	3.24***	(2.29,4.58)
Paternity Establishment						
Established	153	2.6	ref.	---	ref.	---
Missing	111	13.6	5.32***	(4.22,6.72)	2.73***	(2.12,3.51)
Maternal Race/Ethnicity						
White	97	6.1	--	--	--	--
Black	24	9.6	--	--	--	--
Latina, US-born	108	5.2	--	--	--	--
Latina, Foreign-born	22	0.8	--	--	--	--
Asian/Pacific Islander	<10	--	--	--	--	--
Native American	<10	--	--	--	--	--
Maternal Age						
≤ 19 yrs	54	5.4	2.02***	(1.38,2.96)	1.92*	(1.17,3.17)
20-24 yrs	83	3.9	1.46*	(1.03,2.07)	1.14	(0.80,1.63)
25-29 yrs	79	4.3	1.63**	(1.15,2.32)	1.34	(0.96,1.86)
30+ yrs	48	2.7	ref.	---	ref.	---
Maternal Education						
< HS	134	4.9	--	--	--	--
HS or GED	98	4.3	--	--	--	--
Some College	32	2.3	--	--	--	--
College+	<10	--	--	--	--	--
Number of Births						
One	54	2.35	ref.	---	ref.	---
Two	57	3.05	1.30	(0.90,1.87)	1.79**	(1.19,2.68)
Three+	153	5.81	2.47***	(1.82,3.36)	3.36***	(2.23,5.07)
Prior Pregnancy Terminations						
None	190	3.49	ref.	---	ref.	---
One+	74	5.45	1.56***	(1.20,2.03)	1.30*	(1.00,1.69)
Birth Payment Method						
Non-Public	39	1.87	ref.	---	ref.	---
Public	225	4.77	2.56***	(1.83,3.58)	1.86***	(1.32,2.63)

Table Notes:

1. RR = Risk Ratio; 95% CI = 95% Confidence Interval; ref = Reference group for Risk Ratio calculations; [---] indicates no corresponding statistic given reference group status.
2. Cell sizes < 10 masked as indicated by [--]; statistical significance denoted as: *P* < .05*; *P* < .01**; *P* < .001***.

Table 5. Summary of County Data for California: Children Born in 2006/2007 and Reported to Child Protective Services, Substantiated as Victims, or Entering Foster Care before Age 5

County of Birth	Births 2006 & 2007	% Reported	% Substantiated	% Entering Foster Care
California	1,085,745	14.8%	5.1%	2.2%
Alameda	42,000	10.7%	2.9%	1.6%
Alpine	--	--	--	--
Amador	619	24.4%	7.8%	3.2%
Butte	5,940	25.1%	10.3%	5.7%
Calaveras	107	41.1%	16.8%	--
Colusa	456	14.5%	5.7%	3.5%
Contra Costa	23,219	10.3%	3.4%	1.4%
Del Norte	709	28.3%	15.2%	6.8%
El Dorado	2,403	19.7%	9.7%	4.7%
Fresno	35,056	19.2%	5.0%	2.7%
Glenn	--	--	--	--
Humboldt	3,202	22.3%	7.1%	3.4%
Imperial	6,205	13.2%	5.4%	2.8%
Inyo	451	16.4%	3.5%	--
Kern	28,099	22.3%	10.7%	4.3%
Kings	5,182	16.6%	5.0%	3.2%
Lake	1,084	27.1%	8.5%	5.4%
Lassen	453	21.9%	7.9%	3.8%
Los Angeles	310,700	14.6%	5.2%	2.4%
Madera	4,014	22.0%	9.0%	5.1%
Marin	3,451	9.8%	3.2%	0.8%
Mariposa	--	--	--	--
Mendocino	1,980	23.3%	11.1%	4.1%
Merced	6,804	21.6%	7.6%	3.9%
Modoc	--	--	--	--
Mono	279	7.9%	--	--
Monterey	14,196	8.9%	2.4%	1.0%
Napa	2,593	11.2%	3.5%	1.7%
Nevada	1,990	14.2%	4.3%	2.0%
Orange	93,963	11.5%	4.9%	1.4%
Placer	6,771	13.8%	5.2%	1.7%
Plumas	210	23.3%	10.5%	--
Riverside	57,031	18.3%	7.1%	3.5%
Sacramento	47,277	17.1%	6.5%	3.2%
San Benito	1,191	17.0%	6.3%	2.9%
San Bernardino	57,807	17.4%	5.3%	2.6%
San Diego	85,349	15.9%	5.0%	1.8%
San Francisco	25,776	8.2%	2.6%	1.3%
San Joaquin	21,183	17.4%	6.1%	2.2%
San Luis Obispo	5,445	17.3%	5.1%	2.1%
San Mateo	10,599	6.0%	1.3%	0.5%
Santa Barbara	11,903	12.6%	4.3%	2.0%
Santa Clara	56,832	9.8%	2.4%	1.2%

County of Birth	Births 2006 & 2007	% Reported	% Substantiated	% Entering Foster Care
Santa Cruz	7,379	14.3%	4.7%	1.9%
Shasta	4,556	27.6%	12.9%	6.6%
Sierra	--	--	--	--
Siskiyou	805	30.7%	13.5%	5.7%
Solano	10,978	15.2%	4.0%	1.5%
Sonoma	11,397	10.3%	3.9%	1.2%
Stanislaus	19,632	16.9%	6.3%	1.4%
Sutter	4,481	18.4%	6.8%	2.6%
Tehama	1,412	30.7%	11.8%	7.1%
Trinity	--	--	--	--
Tulare	14,900	18.8%	5.0%	2.6%
Tuolumne	1,169	23.9%	9.5%	4.4%
Ventura	21,713	13.0%	2.8%	1.4%
Yolo	4,097	12.8%	4.6%	2.1%
Yuba	--	--	--	--

Table Notes:

1. Cell sizes < 10 masked as indicated by [--].