

**California In-Hospital Breastfeeding as Indicated on the Newborn Screening Test Form
Statewide and Maternal County of Residence by Race/Ethnicity: 2003**

COUNTY INFANT RACE/ETHNICITY	TOTAL	ANY BREASTFEEDING			EXCLUSIVE BREASTFEEDING		
		Number	Percent	95% CI Lower Upper	Number	Percent	95% CI Lower Upper
CALIFORNIA	487,487	417,166	85.6	(85.5 - 85.7)	205,337	42.1	(42.0 - 42.3)
African American	24,574	17,474	71.1	(70.5 - 71.7)	7,696	31.3	(30.7 - 31.9)
American Indian	551	437	79.3	(75.7 - 82.5)	281	51.0	(46.8 - 55.2)
Asian	40,920	34,516	84.3	(84.0 - 84.7)	16,346	39.9	(39.5 - 40.4)
Multiple Race	19,951	17,789	89.2	(88.7 - 89.6)	11,711	58.7	(58.0 - 59.4)
Pacific Islander	796	570	71.6	(68.4 - 74.6)	243	30.5	(27.4 - 33.8)
Other	8,779	7,069	80.5	(79.7 - 81.3)	3,790	43.2	(42.1 - 44.2)
White	139,640	124,728	89.3	(89.2 - 89.5)	89,666	64.2	(64.0 - 64.5)
Hispanic	248,016	211,047	85.1	(85.0 - 85.2)	73,616	29.7	(29.5 - 29.9)
Missing	4,260						
ALAMEDA	19,541	17,988	92.1	(91.7 - 92.4)	14,042	71.9	(71.2 - 72.5)
African American	2,118	1,702	80.4	(78.6 - 82.0)	1,277	60.3	(58.2 - 62.4)
American Indian	21	20	95.2	(77.3 - 99.2)	13	*	*
Asian	3,766	3,499	92.9	(92.0 - 93.7)	2,376	63.1	(61.5 - 64.6)
Multiple Race	1,311	1,218	92.9	(91.4 - 94.2)	1,007	76.8	(74.5 - 79.0)
Pacific Islander	43	34	79.1	(64.8 - 88.6)	20	46.5	(32.5 - 61.1)
Other	776	719	92.7	(90.6 - 94.3)	551	71.0	(67.7 - 74.1)
White	5,175	4,895	94.6	(93.9 - 95.2)	4,141	80.0	(78.9 - 81.1)
Hispanic	5,993	5,592	93.3	(92.6 - 93.9)	4,409	73.6	(72.4 - 74.7)
Missing	338						
ALPINE	10	10	*	*	5	*	*
African American	*	*	*	*	*	*	*
American Indian	4	*	*	*	*	*	*
Asian	*	*	*	*	*	*	*
Multiple Race	1	*	*	*	*	*	*
Pacific Islander	*	*	*	*	*	*	*
Other	*	*	*	*	*	*	*
White	5	5	*	*	*	*	*
Hispanic	*	*	*	*	*	*	*
Missing	*						
AMADOR	293	255	87.0	(82.7 - 90.4)	150	51.2	(45.5 - 56.9)
African American	3	*	*	*	*	*	*
American Indian	2	*	*	*	*	*	*
Asian	2	*	*	*	*	*	*
Multiple Race	16	11	*	*	7	*	*
Pacific Islander	*	*	*	*	*	*	*
Other	*	*	*	*	*	*	*
White	227	202	89.0	(84.2 - 92.4)	124	54.6	(48.1 - 61.0)
Hispanic	40	34	85.0	(70.9 - 92.9)	14	*	*
Missing	3						
BUTTE	2,157	1,832	84.9	(83.4 - 86.4)	1,303	60.4	(58.3 - 62.5)
African American	26	21	80.8	(62.1 - 91.5)	12	*	*
American Indian	13	7	*	*	6	*	*
Asian	63	20	31.7	(21.6 - 44.0)	13	*	*
Multiple Race	122	109	89.3	(82.6 - 93.7)	88	72.1	(63.6 - 79.3)
Pacific Islander	*	*	*	*	*	*	*
Other	44	23	52.3	(37.9 - 66.2)	8	*	*
White	1,450	1,262	87.0	(85.2 - 88.7)	954	65.8	(63.3 - 68.2)
Hispanic	408	366	89.7	(86.4 - 92.3)	201	49.3	(44.4 - 54.1)
Missing	31						
CALAVERAS	307	267	87.0	(82.7 - 90.3)	136	44.3	(38.8 - 49.9)
African American	3	*	*	*	*	*	*
American Indian	2	*	*	*	*	*	*
Asian	2	*	*	*	*	*	*
Multiple Race	16	15	*	*	6	*	*
Pacific Islander	*	*	*	*	*	*	*
Other	1	*	*	*	*	*	*
White	234	201	85.9	(80.9 - 89.8)	114	48.7	(42.4 - 55.1)
Hispanic	44	38	86.4	(73.3 - 93.6)	9	*	*
Missing	5						
COLUSA	298	234	78.5	(73.5 - 82.8)	85	28.5	(23.7 - 33.9)
African American	*	*	*	*	*	*	*
American Indian	3	*	*	*	*	*	*
Asian	*	*	*	*	*	*	*
Multiple Race	4	*	*	*	*	*	*
Pacific Islander	*	*	*	*	*	*	*
Other	2	*	*	*	*	*	*
White	88	74	84.1	(75.0 - 90.3)	47	53.4	(43.1 - 63.5)
Hispanic	198	154	77.8	(71.5 - 83.0)	36	18.2	(13.4 - 24.1)
Missing	3						

**California In-Hospital Breastfeeding as Indicated on the Newborn Screening Test Form
Statewide and Maternal County of Residence by Race/Ethnicity: 2003**

COUNTY INFANT RACE/ETHNICITY	TOTAL	ANY BREASTFEEDING			EXCLUSIVE BREASTFEEDING		
		Number	Percent	95% CI Lower Upper	Number	Percent	95% CI Lower Upper
CONTRA COSTA	12,034	11,034	91.7	(91.2 - 92.2)	8,038	66.8	(65.9 - 67.6)
African American	961	756	78.7	(76.0 - 81.1)	528	54.9	(51.8 - 58.1)
American Indian	7	7	*	*	5	*	*
Asian	886	819	92.4	(90.5 - 94.0)	546	61.6	(58.4 - 64.8)
Multiple Race	823	756	91.9	(89.8 - 93.5)	608	73.9	(70.8 - 76.8)
Pacific Islander	19	16	*	*	7	*	*
Other	357	325	91.0	(87.6 - 93.6)	248	69.5	(64.5 - 74.0)
White	4,851	4,516	93.1	(92.3 - 93.8)	3,451	71.1	(69.8 - 72.4)
Hispanic	3,986	3,709	93.1	(92.2 - 93.8)	2,560	64.2	(62.7 - 65.7)
Missing	144						
DEL NORTE	260	232	89.2	(84.9 - 92.4)	158	60.8	(54.7 - 66.5)
African American	1	*	*	*	*	*	*
American Indian	16	16	*	*	12	*	*
Asian	1	*	*	*	*	*	*
Multiple Race	25	20	80.0	(60.9 - 91.1)	12	*	*
Pacific Islander	*	*	*	*	*	*	*
Other	7	*	*	*	*	*	*
White	138	124	89.9	(83.7 - 93.9)	95	68.8	(60.7 - 76.0)
Hispanic	67	63	94.0	(85.6 - 97.7)	33	49.3	(37.7 - 60.9)
Missing	5						
EL DORADO	1,539	1,419	92.2	(90.8 - 93.4)	1,075	69.9	(67.5 - 72.1)
African American	4	*	*	*	*	*	*
American Indian	*	*	*	*	*	*	*
Asian	13	12	*	*	6	*	*
Multiple Race	77	76	98.7	(93.0 - 99.8)	56	72.7	(61.9 - 81.4)
Pacific Islander	*	*	*	*	*	*	*
Other	6	6	*	*	5	*	*
White	1,112	1,024	92.1	(90.4 - 93.5)	829	74.6	(71.9 - 77.0)
Hispanic	313	286	91.4	(87.7 - 94.0)	173	55.3	(49.7 - 60.7)
Missing	14						
FRESNO	13,436	11,000	81.9	(81.2 - 82.5)	4,974	37.0	(36.2 - 37.8)
African American	629	449	71.4	(67.7 - 74.8)	173	27.5	(24.2 - 31.1)
American Indian	15	12	*	*	8	*	*
Asian	428	285	66.6	(62.0 - 70.9)	124	29.0	(24.9 - 33.4)
Multiple Race	161	142	88.2	(82.3 - 92.3)	90	55.9	(48.2 - 63.3)
Pacific Islander	1	*	*	*	*	*	*
Other	635	395	62.2	(58.4 - 65.9)	174	27.4	(24.1 - 31.0)
White	3,225	2,823	87.5	(86.3 - 88.6)	2,076	64.4	(62.7 - 66.0)
Hispanic	8,153	6,748	82.8	(81.9 - 83.6)	2,248	27.6	(26.6 - 28.6)
Missing	189						
GLENN	403	355	88.1	(84.6 - 90.9)	200	49.6	(44.8 - 54.5)
African American	4	*	*	*	*	*	*
American Indian	6	5	*	*	*	*	*
Asian	6	*	*	*	*	*	*
Multiple Race	12	10	*	*	7	*	*
Pacific Islander	*	*	*	*	*	*	*
Other	2	*	*	*	*	*	*
White	174	158	90.8	(85.6 - 94.3)	103	59.2	(51.8 - 66.2)
Hispanic	198	175	88.4	(83.2 - 92.1)	85	42.9	(36.2 - 49.9)
Missing	1						
HUMBOLDT	1,334	1,223	91.7	(90.1 - 93.0)	896	67.2	(64.6 - 69.6)
African American	8	8	*	*	*	*	*
American Indian	52	48	92.3	(81.8 - 97.0)	36	69.2	(55.7 - 80.1)
Asian	7	6	*	*	*	*	*
Multiple Race	179	160	89.4	(84.0 - 93.1)	119	66.5	(59.3 - 73.0)
Pacific Islander	3	*	*	*	*	*	*
Other	10	8	*	*	*	*	*
White	850	781	91.9	(89.9 - 93.5)	619	72.8	(69.7 - 75.7)
Hispanic	214	200	93.5	(89.3 - 96.1)	109	50.9	(44.3 - 57.6)
Missing	11						
IMPERIAL	2,628	2,070	78.8	(77.2 - 80.3)	234	8.9	(7.9 - 10.1)
African American	14	10	*	*	*	*	*
American Indian	*	*	*	*	*	*	*
Asian	14	9	*	*	*	*	*
Multiple Race	15	11	*	*	*	*	*
Pacific Islander	1	*	*	*	*	*	*
Other	*	*	*	*	*	*	*
White	208	176	84.6	(79.1 - 88.9)	59	28.4	(22.7 - 34.8)
Hispanic	2,366	1,857	78.5	(76.8 - 80.1)	172	7.3	(6.3 - 8.4)
Missing	10						

**California In-Hospital Breastfeeding as Indicated on the Newborn Screening Test Form
Statewide and Maternal County of Residence by Race/Ethnicity: 2003**

COUNTY INFANT RACE/ETHNICITY	TOTAL	ANY BREASTFEEDING			EXCLUSIVE BREASTFEEDING		
		Number	Percent	95% CI Lower Upper	Number	Percent	95% CI Lower Upper
INYO	184	165	89.7	(84.4 - 93.3)	126	68.5	(61.4 - 74.8)
African American	3	*	*	*	*	*	*
American Indian	22	13	*	*	9	*	*
Asian	1	*	*	*	*	*	*
Multiple Race	21	18	*	*	16	*	*
Pacific Islander	*	*	*	*	*	*	*
Other	*	*	*	*	*	*	*
White	71	68	95.8	(88.3 - 98.6)	51	71.8	(60.5 - 81.0)
Hispanic	65	62	95.4	(87.3 - 98.4)	47	72.3	(60.4 - 81.7)
Missing	1						
KERN	11,641	9,424	81.0	(80.2 - 81.7)	2,972	25.5	(24.7 - 26.3)
African American	611	389	63.7	(59.8 - 67.4)	99	16.2	(13.5 - 19.3)
American Indian	8	7	*	*	*	*	*
Asian	240	207	86.3	(81.3 - 90.0)	61	25.4	(20.3 - 31.3)
Multiple Race	187	142	75.9	(69.3 - 81.5)	70	37.4	(30.8 - 44.6)
Pacific Islander	6	6	*	*	*	*	*
Other	82	69	84.1	(74.7 - 90.5)	19	*	*
White	3,669	3,056	83.3	(82.1 - 84.5)	1,593	43.4	(41.8 - 45.0)
Hispanic	6,750	5,491	81.3	(80.4 - 82.3)	1,099	16.3	(15.4 - 17.2)
Missing	88						
KINGS	1,744	1,262	72.4	(70.2 - 74.4)	464	26.6	(24.6 - 28.7)
African American	69	31	44.9	(33.8 - 56.6)	11	*	*
American Indian	4	*	*	*	*	*	*
Asian	23	16	*	*	7	*	*
Multiple Race	34	20	58.8	(42.2 - 73.6)	12	*	*
Pacific Islander	1	*	*	*	*	*	*
Other	12	8	*	*	5	*	*
White	485	383	79.0	(75.1 - 82.4)	228	47.0	(42.6 - 51.5)
Hispanic	1,104	791	71.6	(68.9 - 74.2)	193	17.5	(15.4 - 19.8)
Missing	12						
LAKE	596	520	87.2	(84.3 - 89.7)	306	51.3	(47.3 - 55.3)
African American	4	*	*	*	*	*	*
American Indian	13	10	*	*	6	*	*
Asian	1	*	*	*	*	*	*
Multiple Race	54	45	83.3	(71.3 - 91.0)	30	55.6	(42.4 - 68.0)
Pacific Islander	*	*	*	*	*	*	*
Other	*	*	*	*	*	*	*
White	329	287	87.2	(83.2 - 90.4)	188	57.1	(51.7 - 62.4)
Hispanic	192	171	89.1	(83.9 - 92.7)	79	41.1	(34.4 - 48.2)
Missing	3						
LASSEN	196	175	89.3	(84.2 - 92.9)	135	68.9	(62.1 - 74.9)
African American	*	*	*	*	*	*	*
American Indian	2	*	*	*	*	*	*
Asian	1	*	*	*	*	*	*
Multiple Race	12	10	*	*	7	*	*
Pacific Islander	*	*	*	*	*	*	*
Other	*	*	*	*	*	*	*
White	149	137	91.9	(86.5 - 95.3)	109	73.2	(65.5 - 79.6)
Hispanic	28	21	75.0	(56.6 - 87.3)	13	*	*
Missing	4						
LOS ANGELES	140,888	115,884	82.3	(82.1 - 82.5)	34,870	24.8	(24.5 - 25.0)
African American	10,397	7,026	67.6	(66.7 - 68.5)	2,057	19.8	(19 - 20.6)
American Indian	47	39	83.0	(69.9 - 91.1)	18	*	*
Asian	11,129	8,869	79.7	(78.9 - 80.4)	2,632	23.6	(22.9 - 24.4)
Multiple Race	4,143	3,643	87.9	(86.9 - 88.9)	1,887	45.5	(44 - 47.1)
Pacific Islander	247	167	67.6	(61.5 - 73.1)	34	13.8	(10 - 18.6)
Other	2,059	1,719	83.5	(81.8 - 85.0)	638	31.0	(29.0 - 33.0)
White	23,283	20,584	88.4	(88.0 - 88.8)	13,036	56.0	(55.4 - 56.6)
Hispanic	88,725	73,164	82.5	(82.2 - 82.7)	14,347	16.2	(15.9 - 16.4)
Missing	858						
MADERA	2,096	1,775	84.7	(83.1 - 86.2)	975	46.5	(44.4 - 48.7)
African American	44	29	65.9	(51.1 - 78.1)	12	*	*
American Indian	4	*	*	*	*	*	*
Asian	13	12	*	*	5	*	*
Multiple Race	8	7	*	*	5	*	*
Pacific Islander	*	*	*	*	*	*	*
Other	8	7	*	*	*	*	*
White	555	467	84.1	(80.9 - 86.9)	364	65.6	(61.5 - 69.4)
Hispanic	1,437	1,226	85.3	(83.4 - 87.1)	565	39.3	(36.8 - 41.9)
Missing	27						

**California In-Hospital Breastfeeding as Indicated on the Newborn Screening Test Form
Statewide and Maternal County of Residence by Race/Ethnicity: 2003**

COUNTY INFANT RACE/ETHNICITY	TOTAL	ANY BREASTFEEDING			EXCLUSIVE BREASTFEEDING		
		Number	Percent	95% CI Lower Upper	Number	Percent	95% CI Lower Upper
MARIN	2,435	2,355	96.7	(95.9 - 97.4)	2,173	89.2	(87.9 - 90.4)
African American	25	23	92.0	(75.0 - 97.8)	21	84.0	(65.3 - 93.6)
American Indian	3	*	*	*	*	*	*
Asian	75	75	100.0	(95.1 - 100.0)	63	84.0	(74.1 - 90.6)
Multiple Race	178	177	99.4	(96.9 - 99.9)	158	88.8	(83.3 - 92.6)
Pacific Islander	*	*	*	*	*	*	*
Other	46	41	89.1	(77.0 - 95.3)	37	80.4	(66.8 - 89.3)
White	1,896	1,834	96.7	(95.8 - 97.4)	1,728	91.1	(89.8 - 92.3)
Hispanic	181	171	94.5	(90.1 - 97.0)	132	72.9	(66.0 - 78.9)
Missing	31						
MARIPOSA	119	108	90.8	(84.2 - 94.8)	65	54.6	(45.7 - 63.3)
African American	1	*	*	*	*	*	*
American Indian	1	*	*	*	*	*	*
Asian	*	*	*	*	*	*	*
Multiple Race	1	*	*	*	*	*	*
Pacific Islander	*	*	*	*	*	*	*
Other	1	*	*	*	*	*	*
White	100	93	93.0	(86.3 - 96.6)	55	55.0	(45.2 - 64.4)
Hispanic	12	8	*	*	5	*	*
Missing	3						
MENDOCINO	1,029	953	92.6	(90.9 - 94.1)	684	66.5	(63.5 - 69.3)
African American	2	*	*	*	*	*	*
American Indian	30	22	73.3	(55.6 - 85.8)	10	*	*
Asian	7	*	*	*	*	*	*
Multiple Race	58	53	91.4	(81.4 - 96.3)	44	75.9	(63.5 - 85.0)
Pacific Islander	*	*	*	*	*	*	*
Other	2	*	*	*	*	*	*
White	488	466	95.5	(93.3 - 97.0)	398	81.6	(77.9 - 84.7)
Hispanic	438	400	91.3	(88.3 - 93.6)	224	51.1	(46.5 - 55.8)
Missing	4						
MERCED	3,783	3,169	83.8	(82.6 - 84.9)	1,139	30.1	(28.7 - 31.6)
African American	88	59	67.0	(56.7 - 76.0)	20	22.7	(15.2 - 32.5)
American Indian	3	*	*	*	*	*	*
Asian	96	53	55.2	(45.3 - 64.8)	13	*	*
Multiple Race	74	57	77.0	(66.3 - 85.1)	30	40.5	(30.1 - 51.9)
Pacific Islander	2	*	*	*	*	*	*
Other	100	56	56.0	(46.2 - 65.3)	16	*	*
White	1,000	856	85.6	(83.3 - 87.6)	481	48.1	(45.0 - 51.2)
Hispanic	2,331	2,016	86.5	(85.0 - 87.8)	546	23.4	(21.7 - 25.2)
Missing	89						
MODOC	58	54	93.1	(83.6 - 97.3)	48	82.8	(71.1 - 90.4)
African American	*	*	*	*	*	*	*
American Indian	1	*	*	*	*	*	*
Asian	*	*	*	*	*	*	*
Multiple Race	1	*	*	*	*	*	*
Pacific Islander	*	*	*	*	*	*	*
Other	*	*	*	*	*	*	*
White	41	38	92.7	(80.6 - 97.5)	34	82.9	(68.7 - 91.5)
Hispanic	13	12	*	*	11	*	*
Missing	2						
MONO	121	116	95.9	(90.7 - 98.2)	82	67.8	(59.0 - 75.4)
African American	*	*	*	*	*	*	*
American Indian	2	*	*	*	*	*	*
Asian	*	*	*	*	*	*	*
Multiple Race	7	6	*	*	5	*	*
Pacific Islander	*	*	*	*	*	*	*
Other	*	*	*	*	*	*	*
White	51	49	96.1	(86.8 - 98.9)	38	74.5	(61.1 - 84.5)
Hispanic	61	59	96.7	(88.8 - 99.1)	37	60.7	(48.1 - 71.9)
Missing	*						
MONTEREY	6,545	6,089	93.0	(92.4 - 93.6)	3,338	51.0	(49.8 - 52.2)
African American	80	68	85.0	(75.6 - 91.2)	49	61.3	(50.3 - 71.2)
American Indian	*	*	*	*	*	*	*
Asian	177	164	92.7	(87.8 - 95.7)	113	63.8	(56.5 - 70.6)
Multiple Race	179	168	93.9	(89.3 - 96.5)	149	83.2	(77.1 - 88.0)
Pacific Islander	10	8	*	*	*	*	*
Other	64	58	90.6	(81.0 - 95.6)	31	48.4	(36.6 - 60.4)
White	1,238	1,142	92.2	(90.6 - 93.6)	987	79.7	(77.4 - 81.9)
Hispanic	4,768	4,453	93.4	(92.7 - 94.1)	1,990	41.7	(40.3 - 43.1)
Missing	29						

**California In-Hospital Breastfeeding as Indicated on the Newborn Screening Test Form
Statewide and Maternal County of Residence by Race/Ethnicity: 2003**

COUNTY INFANT RACE/ETHNICITY	TOTAL	ANY BREASTFEEDING			EXCLUSIVE BREASTFEEDING		
		Number	Percent	95% CI Lower Upper	Number	Percent	95% CI Lower Upper
NAPA	1,530	1,415	92.5	(91.1 - 93.7)	1,095	71.6	(69.3 - 73.8)
African American	13	8	*	*	*	*	*
American Indian	1	*	*	*	*	*	*
Asian	49	43	87.8	(75.8 - 94.3)	20	40.8	(28.2 - 54.8)
Multiple Race	60	56	93.3	(84.1 - 97.4)	48	80.0	(68.2 - 88.2)
Pacific Islander	*	*	*	*	*	*	*
Other	6	6	*	*	5	*	*
White	618	575	93.0	(90.8 - 94.8)	488	79.0	(75.6 - 82.0)
Hispanic	762	705	92.5	(90.4 - 94.2)	517	67.8	(64.4 - 71.1)
Missing	21						
NEVADA	678	656	96.8	(95.1 - 97.8)	564	83.2	(80.2 - 85.8)
African American	1	*	*	*	*	*	*
American Indian	2	*	*	*	*	*	*
Asian	1	*	*	*	*	*	*
Multiple Race	26	25	96.2	(81.1 - 99.3)	23	88.5	(71.0 - 96.0)
Pacific Islander	*	*	*	*	*	*	*
Other	1	*	*	*	*	*	*
White	526	509	96.8	(94.9 - 98.0)	449	85.4	(82.1 - 88.1)
Hispanic	105	102	97.1	(91.9 - 99.0)	76	72.4	(63.2 - 80.0)
Missing	16						
ORANGE	42,462	36,267	85.4	(85.1 - 85.7)	11,585	27.3	(26.9 - 27.7)
African American	346	269	77.7	(73.1 - 81.8)	91	26.3	(21.9 - 31.2)
American Indian	6	5	*	*	*	*	*
Asian	5,183	4,040	77.9	(76.8 - 79.1)	910	17.6	(16.5 - 18.6)
Multiple Race	1,777	1,566	88.1	(86.5 - 89.5)	729	41.0	(38.8 - 43.3)
Pacific Islander	61	39	63.9	(51.4 - 74.8)	11	*	*
Other	435	389	89.4	(86.2 - 92.0)	155	35.6	(31.3 - 40.2)
White	13,307	11,762	88.4	(87.8 - 88.9)	6,757	50.8	(49.9 - 51.6)
Hispanic	21,195	18,077	85.3	(84.8 - 85.8)	2,879	13.6	(13.1 - 14.1)
Missing	152						
PLACER	2,899	2,657	91.7	(90.6 - 92.6)	2,051	70.7	(69.1 - 72.4)
African American	26	25	96.2	(81.1 - 99.3)	16	*	*
American Indian	6	*	*	*	*	*	*
Asian	88	80	90.9	(83.1 - 95.3)	53	60.2	(49.8 - 69.8)
Multiple Race	199	184	92.5	(87.9 - 95.4)	144	72.4	(65.8 - 78.1)
Pacific Islander	1	*	*	*	*	*	*
Other	31	26	83.9	(67.4 - 92.9)	17	*	*
White	1,965	1,812	92.2	(90.9 - 93.3)	1,473	75.0	(73.9 - 76.8)
Hispanic	515	465	90.3	(87.4 - 92.6)	297	57.7	(53.4 - 61.9)
Missing	68						
PLUMAS	146	137	93.8	(88.7 - 96.7)	111	76.0	(68.5 - 82.2)
African American	*	*	*	*	*	*	*
American Indian	3	*	*	*	*	*	*
Asian	*	*	*	*	*	*	*
Multiple Race	8	8	*	*	6	*	*
Pacific Islander	*	*	*	*	*	*	*
Other	*	*	*	*	*	*	*
White	109	104	95.4	(89.7 - 98.0)	89	81.7	(73.4 - 87.8)
Hispanic	19	17	*	*	10	*	*
Missing	7						
RIVERSIDE	24,615	20,039	81.4	(80.9 - 81.9)	10,486	42.6	(42.0 - 43.2)
African American	1,134	809	71.3	(68.6 - 73.9)	368	32.5	(29.8 - 35.2)
American Indian	38	23	60.5	(44.7 - 74.4)	14	*	*
Asian	572	466	81.5	(78.1 - 84.4)	208	36.4	(32.5 - 40.4)
Multiple Race	697	582	83.5	(80.6 - 86.1)	359	51.5	(47.8 - 55.2)
Pacific Islander	29	23	79.3	(61.6 - 90.2)	7	*	*
Other	222	175	78.8	(73.0 - 83.7)	90	40.5	(34.3 - 47.1)
White	7,597	6,381	84.0	(83.2 - 84.8)	4,482	59.0	(57.9 - 60.1)
Hispanic	14,008	11,339	80.9	(80.3 - 81.6)	4,834	34.5	(33.7 - 35.3)
Missing	318						
SACRAMENTO	18,390	15,362	83.5	(83.0 - 84.1)	10,550	57.4	(56.7 - 58.1)
African American	1,756	1,281	72.9	(70.8 - 75.0)	774	44.1	(41.8 - 46.4)
American Indian	29	22	75.9	(57.9 - 87.8)	18	*	*
Asian	1,425	1,097	77.0	(74.7 - 79.1)	649	45.5	(43.0 - 48.1)
Multiple Race	1,274	1,078	84.6	(82.5 - 86.5)	739	58.0	(55.3 - 60.7)
Pacific Islander	32	19	*	*	8	*	*
Other	927	523	56.4	(53.2 - 59.6)	325	35.1	(32.1 - 38.2)
White	7,630	6,783	88.9	(88.2 - 89.6)	5,243	68.7	(67.7 - 69.7)
Hispanic	5,059	4,338	85.7	(84.8 - 86.7)	2,628	51.9	(50.6 - 53.3)
Missing	258						

**California In-Hospital Breastfeeding as Indicated on the Newborn Screening Test Form
Statewide and Maternal County of Residence by Race/Ethnicity: 2003**

COUNTY INFANT RACE/ETHNICITY	TOTAL	ANY BREASTFEEDING			EXCLUSIVE BREASTFEEDING		
		Number	Percent	95% CI Lower Upper	Number	Percent	95% CI Lower Upper
SAN BENITO	791	718	90.8	(88.6 - 92.6)	317	40.1	(36.7 - 43.5)
African American	1	*	*	*	*	*	*
American Indian	*	*	*	*	*	*	*
Asian	9	9	*	*	*	*	*
Multiple Race	22	20	90.9	(72.2 - 97.5)	14	*	*
Pacific Islander	*	*	*	*	*	*	*
Other	5	*	*	*	*	*	*
White	218	201	92.2	(87.9 - 95.1)	133	61.0	(54.4 - 67.2)
Hispanic	534	482	90.3	(87.5 - 92.5)	162	30.3	(26.6 - 34.4)
Missing	2						
SAN BERNARDINO	26,874	20,954	78.0	(77.5 - 78.5)	8,513	31.7	(31.1 - 32.2)
African American	2,071	1,337	64.6	(62.5 - 66.6)	451	21.8	(20.1 - 23.6)
American Indian	15	11	*	*	*	*	*
Asian	752	602	80.1	(77.0 - 82.8)	184	24.5	(21.5 - 27.7)
Multiple Race	768	616	80.2	(77.2 - 82.9)	333	43.4	(39.9 - 46.9)
Pacific Islander	43	29	67.4	(52.5 - 79.5)	13	*	*
Other	319	270	84.6	(80.3 - 88.2)	78	24.5	(20.1 - 29.5)
White	7,341	5,915	80.6	(79.7 - 81.5)	3,714	50.6	(49.4 - 51.7)
Hispanic	15,305	11,969	78.2	(77.5 - 78.9)	3,655	23.9	(23.2 - 24.6)
Missing	260						
SAN DIEGO	37,682	34,213	90.8	(90.5 - 91.1)	22,500	59.7	(59.2 - 60.2)
African American	1,354	1,066	78.7	(76.5 - 80.8)	567	41.9	(39.3 - 44.5)
American Indian	37	31	83.8	(68.9 - 92.3)	21	56.8	(40.9 - 71.3)
Asian	2,601	2,199	84.5	(83.1 - 85.9)	1,265	48.6	(46.7 - 50.6)
Multiple Race	2,000	1,825	91.3	(89.9 - 92.4)	1,281	64.1	(61.9 - 66.1)
Pacific Islander	94	72	76.6	(67.1 - 84.0)	41	43.6	(34.0 - 53.7)
Other	571	516	90.4	(87.7 - 92.5)	312	54.6	(50.5 - 58.7)
White	12,565	11,652	92.7	(92.3 - 93.2)	9,083	72.3	(71.5 - 73.1)
Hispanic	18,175	16,589	91.3	(90.9 - 91.7)	9,748	53.6	(52.9 - 54.4)
Missing	285						
SAN FRANCISCO	7,585	6,947	91.6	(90.9 - 92.2)	5,374	70.9	(69.8 - 71.9)
African American	511	364	71.2	(67.2 - 75.0)	189	37.0	(32.9 - 41.3)
American Indian	3	*	*	*	*	*	*
Asian	1,855	1,621	87.4	(85.8 - 88.8)	1,029	55.5	(53.2 - 57.7)
Multiple Race	723	674	93.2	(91.2 - 94.8)	563	77.9	(74.7 - 80.7)
Pacific Islander	40	20	50.0	(35.2 - 64.8)	10	*	*
Other	159	149	93.7	(88.8 - 96.5)	125	78.6	(71.6 - 84.3)
White	2,631	2,530	96.2	(95.4 - 96.8)	2,326	88.4	(87.1 - 89.6)
Hispanic	1,553	1,485	95.6	(94.5 - 96.5)	1,053	67.8	(65.4 - 70.1)
Missing	110						
SAN JOAQUIN	9,284	7,590	81.8	(81.0 - 82.5)	3,074	33.1	(32.2 - 34.1)
African American	605	436	72.1	(68.4 - 75.5)	176	29.1	(25.6 - 32.8)
American Indian	9	*	*	*	*	*	*
Asian	752	522	69.4	(66.0 - 72.6)	212	28.2	(25.1 - 31.5)
Multiple Race	378	322	85.2	(81.3 - 88.4)	162	42.9	(38.0 - 47.9)
Pacific Islander	18	11	*	*	*	*	*
Other	324	201	62.0	(56.6 - 67.2)	77	23.8	(19.5 - 28.7)
White	2,627	2,168	82.5	(81.0 - 83.9)	1,255	47.8	(45.9 - 49.7)
Hispanic	4,395	3,785	86.1	(85.1 - 87.1)	1,151	26.2	(24.9 - 27.5)
Missing	176						
SAN LUIS OBISPO	2,389	2,271	95.1	(94.1 - 95.9)	1,877	78.6	(76.9 - 80.2)
African American	16	16	*	*	12	*	*
American Indian	1	*	*	*	*	*	*
Asian	37	35	94.6	(82.3 - 98.5)	29	78.4	(62.8 - 88.6)
Multiple Race	118	112	94.9	(89.3 - 97.6)	92	78.0	(69.7 - 84.5)
Pacific Islander	*	*	*	*	*	*	*
Other	19	18	*	*	14	*	*
White	1,354	1,295	95.6	(94.4 - 96.6)	1,128	83.3	(81.2 - 85.2)
Hispanic	832	782	94.0	(92.2 - 95.4)	593	71.3	(68.1 - 74.2)
Missing	12						
SAN MATEO	9,574	9,114	95.2	(94.7 - 95.6)	7,189	75.1	(74.2 - 75.9)
African American	190	159	83.7	(77.8 - 88.3)	129	67.9	(61.0 - 74.1)
American Indian	2	*	*	*	*	*	*
Asian	1,735	1,640	94.5	(93.4 - 95.5)	1,205	69.5	(67.2 - 71.6)
Multiple Race	672	641	95.4	(93.5 - 96.7)	492	73.2	(69.7 - 76.4)
Pacific Islander	56	51	91.1	(80.7 - 96.1)	35	62.5	(49.4 - 74.0)
Other	292	261	89.4	(85.3 - 92.4)	197	67.5	(61.9 - 72.6)
White	3,417	3,291	96.3	(95.6 - 96.9)	2,858	83.6	(82.4 - 84.8)
Hispanic	3,131	2,995	95.7	(94.9 - 96.3)	2,213	70.7	(69.1 - 72.2)
Missing	79						

**California In-Hospital Breastfeeding as Indicated on the Newborn Screening Test Form
Statewide and Maternal County of Residence by Race/Ethnicity: 2003**

COUNTY INFANT RACE/ETHNICITY	TOTAL	ANY BREASTFEEDING			EXCLUSIVE BREASTFEEDING		
		Number	Percent	95% CI Lower Upper	Number	Percent	95% CI Lower Upper
SANTA BARBARA	5,331	4,995	93.7	(93.0 - 94.3)	3,617	67.8	(66.6 - 69.1)
African American	54	44	81.5	(69.2 - 89.6)	27	50.0	(37.1 - 62.9)
American Indian	1	*	*	*	*	*	*
Asian	97	92	94.8	(88.5 - 97.8)	71	73.2	(63.6 - 81.0)
Multiple Race	127	119	93.7	(88.1 - 96.8)	86	67.7	(59.2 - 75.2)
Pacific Islander	*	*	*	*	*	*	*
Other	13	11	*	*	8	*	*
White	1,786	1,694	94.8	(93.7 - 95.8)	1,450	81.2	(79.3 - 82.9)
Hispanic	3,211	2,994	93.2	(92.3 - 94.1)	1,946	60.6	(58.9 - 62.3)
Missing	42						
SANTA CLARA	24,545	22,919	93.4	(93.1 - 93.7)	13,803	56.2	(55.6 - 56.9)
African American	354	310	87.6	(83.7 - 90.6)	169	47.7	(42.6 - 52.9)
American Indian	10	10	*	*	5	*	*
Asian	7,183	6,668	92.8	(92.2 - 93.4)	3,833	53.4	(52.2 - 54.5)
Multiple Race	1,573	1,487	94.5	(93.3 - 95.6)	1,113	70.8	(68.5 - 73.0)
Pacific Islander	39	32	82.1	(67.3 - 91.0)	22	56.4	(41.0 - 70.7)
Other	672	638	94.9	(93.0 - 96.4)	364	54.2	(50.4 - 57.9)
White	5,880	5,587	95.0	(94.4 - 95.5)	4,384	74.6	(73.4 - 75.7)
Hispanic	8,702	8,066	92.7	(92.1 - 93.2)	3,838	44.1	(43.1 - 45.2)
Missing	132						
SANTA CRUZ	3,348	3,209	95.8	(95.1 - 96.5)	2,193	65.5	(63.9 - 67.1)
African American	6	6	*	*	6	*	*
American Indian	*	*	*	*	*	*	*
Asian	36	34	94.4	(81.9 - 98.5)	25	69.4	(53.1 - 82.0)
Multiple Race	137	131	95.6	(90.8 - 98.0)	97	70.8	(62.7 - 77.8)
Pacific Islander	2	*	*	*	*	*	*
Other	41	38	92.7	(80.6 - 97.5)	30	73.2	(58.1 - 84.3)
White	1,184	1,140	96.3	(95.0 - 97.2)	963	81.3	(79.0 - 83.5)
Hispanic	1,917	1,833	95.6	(94.6 - 96.4)	1,049	54.7	(52.5 - 56.9)
Missing	25						
SHASTA	1,914	1,746	91.2	(89.9 - 92.4)	1,538	80.4	(78.5 - 82.1)
African American	23	19	*	*	16	*	*
American Indian	46	40	87.0	(74.3 - 93.9)	36	78.3	(64.4 - 87.7)
Asian	28	24	85.7	(68.5 - 94.3)	22	78.6	(60.5 - 89.8)
Multiple Race	31	27	87.1	(71.1 - 94.9)	23	74.2	(56.8 - 86.3)
Pacific Islander	1	*	*	*	*	*	*
Other	21	14	*	*	12	*	*
White	1,584	1,459	92.1	(90.7 - 93.3)	1,297	81.9	(79.9 - 83.7)
Hispanic	153	139	90.8	(85.2 - 94.5)	112	73.2	(65.7 - 79.6)
Missing	27						
SIERRA	22	21	95.5	(78.2 - 99.2)	17	*	*
African American	*	*	*	*	*	*	*
American Indian	*	*	*	*	*	*	*
Asian	*	*	*	*	*	*	*
Multiple Race	*	*	*	*	*	*	*
Pacific Islander	*	*	*	*	*	*	*
Other	*	*	*	*	*	*	*
White	19	18	*	*	17	*	*
Hispanic	3	*	*	*	*	*	*
Missing	*						
SISKIYOU	346	315	91.0	(87.6 - 93.6)	248	71.7	(66.7 - 76.2)
African American	2	*	*	*	*	*	*
American Indian	10	10	*	*	6	*	*
Asian	6	*	*	*	*	*	*
Multiple Race	49	48	98.0	(89.3 - 99.6)	33	67.3	(53.4 - 78.8)
Pacific Islander	1	*	*	*	*	*	*
Other	*	*	*	*	*	*	*
White	217	197	90.8	(86.2 - 94.0)	165	76.0	(69.9 - 81.2)
Hispanic	53	47	88.7	(77.4 - 94.7)	34	64.2	(50.7 - 75.7)
Missing	8						
SOLANO	5,291	4,498	85.0	(84.0 - 85.9)	3,169	59.9	(58.6 - 61.2)
African American	597	429	71.9	(68.1 - 75.3)	275	46.1	(42.1 - 50.1)
American Indian	6	*	*	*	*	*	*
Asian	523	448	85.7	(82.4 - 88.4)	274	52.4	(48.1 - 56.6)
Multiple Race	507	436	86.0	(82.7 - 88.7)	308	60.7	(56.4 - 64.9)
Pacific Islander	25	18	*	*	12	*	*
Other	80	70	87.5	(78.5 - 93.1)	52	65.0	(54.1 - 74.5)
White	1,790	1,545	86.3	(84.6 - 87.8)	1,221	68.2	(66.0 - 70.3)
Hispanic	1,713	1,507	88.0	(86.3 - 89.4)	997	58.2	(55.9 - 60.5)
Missing	50						

**California In-Hospital Breastfeeding as Indicated on the Newborn Screening Test Form
Statewide and Maternal County of Residence by Race/Ethnicity: 2003**

COUNTY INFANT RACE/ETHNICITY	TOTAL	ANY BREASTFEEDING			EXCLUSIVE BREASTFEEDING		
		Number	Percent	95% CI Lower Upper	Number	Percent	95% CI Lower Upper
SONOMA	5,266	4,971	94.4	(93.7 - 95.0)	3,630	68.9	(67.7 - 70.2)
African American	40	34	85.0	(70.9 - 92.9)	23	57.5	(42.2 - 71.5)
American Indian	16	12	*	*	9	*	*
Asian	159	146	91.8	(86.5 - 95.2)	75	47.2	(39.6 - 54.9)
Multiple Race	260	243	93.5	(89.8 - 95.9)	185	71.2	(65.4 - 76.3)
Pacific Islander	6	6	*	*	*	*	*
Other	30	29	96.7	(83.3 - 99.4)	16	*	*
White	2,603	2,457	94.4	(93.4 - 95.2)	1,947	74.8	(73.1 - 76.4)
Hispanic	2,090	1,987	95.1	(94.1 - 95.9)	1,328	63.5	(61.5 - 65.6)
Missing	62						
STANISLAUS	7,360	6,010	81.7	(80.8 - 82.5)	3,268	44.4	(43.3 - 45.5)
African American	119	79	66.4	(57.5 - 74.2)	47	39.5	(31.2 - 48.5)
American Indian	4	*	*	*	*	*	*
Asian	161	102	63.4	(55.7 - 70.4)	42	26.1	(19.9 - 33.4)
Multiple Race	162	134	82.7	(76.2 - 87.8)	85	52.5	(44.8 - 60.0)
Pacific Islander	3	*	*	*	*	*	*
Other	156	126	80.8	(73.9 - 86.2)	84	53.8	(46.0 - 61.5)
White	2,833	2,315	81.7	(80.2 - 83.1)	1,669	58.9	(57.1 - 60.7)
Hispanic	3,850	3,213	83.5	(82.2 - 84.6)	1,321	34.3	(32.8 - 35.8)
Missing	72						
SUTTER	1,163	975	83.8	(81.6 - 85.8)	553	47.5	(44.7 - 50.4)
African American	11	7	*	*	7	*	*
American Indian	*	*	*	*	*	*	*
Asian	100	73	73.0	(63.6 - 80.7)	30	30.0	(21.9 - 39.6)
Multiple Race	26	20	76.9	(57.9 - 89.0)	11	*	*
Pacific Islander	*	*	*	*	*	*	*
Other	47	36	76.6	(62.8 - 86.4)	13	*	*
White	546	455	83.3	(80.0 - 86.2)	339	62.1	(57.9 - 66.1)
Hispanic	429	380	88.6	(85.2 - 91.3)	151	35.2	(30.8 - 39.8)
Missing	4						
TEHAMA	650	558	85.8	(83.0 - 88.3)	406	62.5	(58.7 - 66.1)
African American	2	*	*	*	*	*	*
American Indian	2	*	*	*	*	*	*
Asian	2	*	*	*	*	*	*
Multiple Race	22	19	*	*	16	*	*
Pacific Islander	*	*	*	*	*	*	*
Other	1	*	*	*	*	*	*
White	382	331	86.6	(82.9 - 89.7)	270	70.7	(65.9 - 75.0)
Hispanic	230	197	85.7	(80.5 - 89.6)	113	49.1	(42.7 - 55.6)
Missing	9						
TRINITY	86	81	94.2	(87.1 - 97.5)	75	87.2	(78.5 - 92.7)
African American	*	*	*	*	*	*	*
American Indian	3	*	*	*	*	*	*
Asian	1	*	*	*	*	*	*
Multiple Race	3	*	*	*	*	*	*
Pacific Islander	*	*	*	*	*	*	*
Other	*	*	*	*	*	*	*
White	72	70	97.2	(90.4 - 99.2)	66	91.7	(83.0 - 96.1)
Hispanic	7	6	*	*	*	*	*
Missing	*						
TULARE	6,802	5,463	80.3	(79.4 - 81.2)	1,586	23.3	(22.3 - 24.3)
African American	50	33	66.0	(52.2 - 77.6)	8	*	*
American Indian	12	9	*	*	*	*	*
Asian	92	56	60.9	(50.7 - 70.2)	14	*	*
Multiple Race	85	59	69.4	(59.0 - 78.2)	26	30.6	(21.8 - 41.0)
Pacific Islander	*	*	*	*	*	*	*
Other	52	28	53.8	(40.5 - 66.7)	9	*	*
White	1,814	1,464	80.7	(78.8 - 82.5)	762	42.0	(39.8 - 44.3)
Hispanic	4,623	3,758	81.3	(80.1 - 82.4)	747	16.2	(15.1 - 17.2)
Missing	74						
TUOLUMNE	419	383	91.4	(88.3 - 93.7)	228	54.4	(49.6 - 59.1)
African American	*	*	*	*	*	*	*
American Indian	*	*	*	*	*	*	*
Asian	1	*	*	*	*	*	*
Multiple Race	14	14	*	*	9	*	*
Pacific Islander	*	*	*	*	*	*	*
Other	1	*	*	*	*	*	*
White	341	313	91.8	(88.4 - 94.3)	189	55.4	(50.1 - 60.6)
Hispanic	59	52	88.1	(77.5 - 94.1)	29	49.2	(36.8 - 61.6)
Missing	3						

**California In-Hospital Breastfeeding as Indicated on the Newborn Screening Test Form
Statewide and Maternal County of Residence by Race/Ethnicity: 2003**

COUNTY INFANT RACE/ETHNICITY	TOTAL	ANY BREASTFEEDING			EXCLUSIVE BREASTFEEDING		
		Number	Percent	95% CI Lower Upper	Number	Percent	95% CI Lower Upper
VENTURA	11,100	9,921	89.4	(88.8 - 89.9)	5,057	45.6	(44.6 - 46.5)
African American	124	98	79.0	(71.0 - 85.3)	35	28.2	(21.1 - 36.7)
American Indian	1	*	*	*	*	*	*
Asian	363	326	89.8	(86.3 - 92.5)	134	36.9	(32.1 - 42.0)
Multiple Race	368	330	89.7	(86.1 - 92.4)	211	57.3	(52.2 - 62.3)
Pacific Islander	10	6	*	*	*	*	*
Other	46	41	89.1	(77.0 - 95.3)	23	50.0	(36.1 - 63.9)
White	4,148	3,761	90.7	(89.7 - 91.5)	2,548	61.4	(59.9 - 62.9)
Hispanic	5,981	5,305	88.7	(87.9 - 89.5)	2,076	34.7	(33.5 - 35.9)
Missing	59						
YOLO	2,252	2,002	88.9	(87.5 - 90.1)	1,484	65.9	(63.9 - 67.8)
African American	40	30	75.0	(59.8 - 85.8)	17	*	*
American Indian	6	*	*	*	*	*	*
Asian	120	111	92.5	(86.4 - 96.0)	82	68.3	(59.6 - 76.0)
Multiple Race	106	100	94.3	(88.2 - 97.4)	80	75.5	(66.5 - 82.7)
Pacific Islander	1	*	*	*	*	*	*
Other	47	37	78.7	(65.1 - 88.0)	32	68.1	(53.8 - 79.6)
White	890	802	90.1	(88.0 - 91.9)	670	75.3	(72.3 - 78.0)
Hispanic	1,026	906	88.3	(86.2 - 90.1)	591	57.6	(54.6 - 60.6)
Missing	16						
YUBA	1,018	791	77.7	(75.0 - 80.2)	506	49.7	(46.6 - 52.8)
African American	33	16	*	*	11	*	*
American Indian	1	*	*	*	*	*	*
Asian	38	19	*	*	5	*	*
Multiple Race	40	32	80.0	(65.2 - 89.5)	24	60.0	(44.6 - 73.7)
Pacific Islander	1	*	*	*	*	*	*
Other	47	18	*	*	5	*	*
White	554	441	79.6	(76.0 - 82.7)	326	58.8	(54.7 - 62.9)
Hispanic	296	257	86.8	(82.5 - 90.2)	127	42.9	(37.4 - 48.6)
Missing	8						

Data Source: California Department of Public Health, Center for Family Health, Genetic Disease Screening Program, Newborn Screening Data, 2003
Prepared by: California Department of Public Health, Center for Family Health, Maternal, Child and Adolescent Health Program

Note 1: All nonmilitary hospitals providing maternity services are required to complete the Newborn Screening Test Form.

Infant feeding data presented in this report include all feedings since birth to time of specimen collection, usually 24 to 48 hours since birth.

Upon completing the form, staff must select one of the following five categories to describe 'all feedings since birth' (not including water feedings):

(1) Breast only; (2) Formula only; (3) Breast and Formula; (4) TPN/Hyperal and (5) Other.

Note 2: The numerator for "Exclusive Breastfeeding" includes records marked 'Breast Only'. The numerator for "Any Breastfeeding" includes records marked as either 'Breast Only' or 'Breast and Formula'. The denominator excludes cases with unknown method of feeding and cases marked as TPN/Hyperal or Other.

Statewide approximately 3.3% of cases have missing feeding information, 0.6% are coded as TPN/Hyperal and 1.6% are coded as Other.

Note 3: Infant race/ethnicity is based upon mother and father race/ethnicity as reported on the birth certificate and recorded on the Newborn Screening Test Form. Data for individual race groups exclude persons of Hispanic ethnicity.

Note 4: Maternal county of residence data are missing for 1.6% of cases.

Note 5: Data for cases with missing race/ethnicity are not shown, but are included in the totals.

Note 6: 95% confidence intervals are shown in parentheses. Confidence intervals were computed using the Wilson Score formula.

Newcombe, R.G. (1998). Two-sided confidence intervals for the single proportion: comparison of seven methods. *Statistics in Medicine*, 17: 857-872.