

10/1/2002

Table 1: Descriptive Statistics Unmatched Birth Certificate Sample

Variable	Category	Total Sample				Birth Certificate Sample			
		Controls		Cases		Controls		Cases	
		N	Percent	N	Percent	N	Percent	N	Percent
Age in 1996	3 - 5 yrs	635	34%	215	34%	382	36%	127	35%
	6 - 10 yrs	1241	66%	414	66%	667	64%	232	65%
Sex	Male	1506	80%	505	80%	834	80%	286	80%
	Female	370	20%	124	20%	215	20%	73	20%
Race	White	930	50%	336	53%	578	55%	201	56%
	Black	674	36%	232	37%	405	39%	139	39%
	Other	175	9%	40	6%	66	6%	19	5%
	Missing	97	5%	21	3%	0	0%	0	0%
Maternal Age	< 20 yrs					102	10%	16	4%
	20 - 34 yrs					823	78%	282	79%
	35+ yrs					124	12%	61	17%
Maternal Educ	<= 12 yrs					485	46%	138	38%
	13 - 15 yrs					259	25%	100	28%
	16+ yrs					305	29%	121	34%
Birth Weight	0 - 1499 gms					11	1%	12	3%
	1500 - 2499 gms					55	5%	37	10%
	2500 + gms					983	94%	310	86%
Multiplicity	Singleton					1017	97%	333	93%
	Twin +					32	3%	26	7%
Parity	1st Born					462	44%	151	42%
	2nd or Higher					578	55%	206	57%
	Missing					9	1%	2	1%
<b>Total</b>		1876	100%	629	100%	1049	100%	359	100%

\* All subjects reported in table had date of receipt of MMR vaccine  
 \*\* All cases are confirmed cases  
 \*\*\* The birth certificate sample presented in this table is the unmatched sample.

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Background Table

1) Total Sample	Age Group	Controls	%Controls	Cases	%Cases	OR	- 95% CI	+ 95% CI
	0 - 11 mo	37	2.0%	8	1.3%	1.0	0.4	2.3
	12 - 17 mo	1258	67.1%	444	70.6%	1.6	1.1	2.2
	18 - 23 mo	271	14.4%	92	14.6%	1.5	1.0	2.3
	24 - 29 mo	93	5.0%	29	4.6%	1.5	0.8	2.5
	30 - 35 mo	38	2.0%	16	2.5%	1.8	0.9	3.7
	36+ mo	179	9.5%	40	6.4%	--	--	--
	<b>Total</b>	<b>1876</b>	<b>100.0%</b>	<b>629</b>	<b>100.0%</b>			

\* Overall test of distribution is not statistically significant

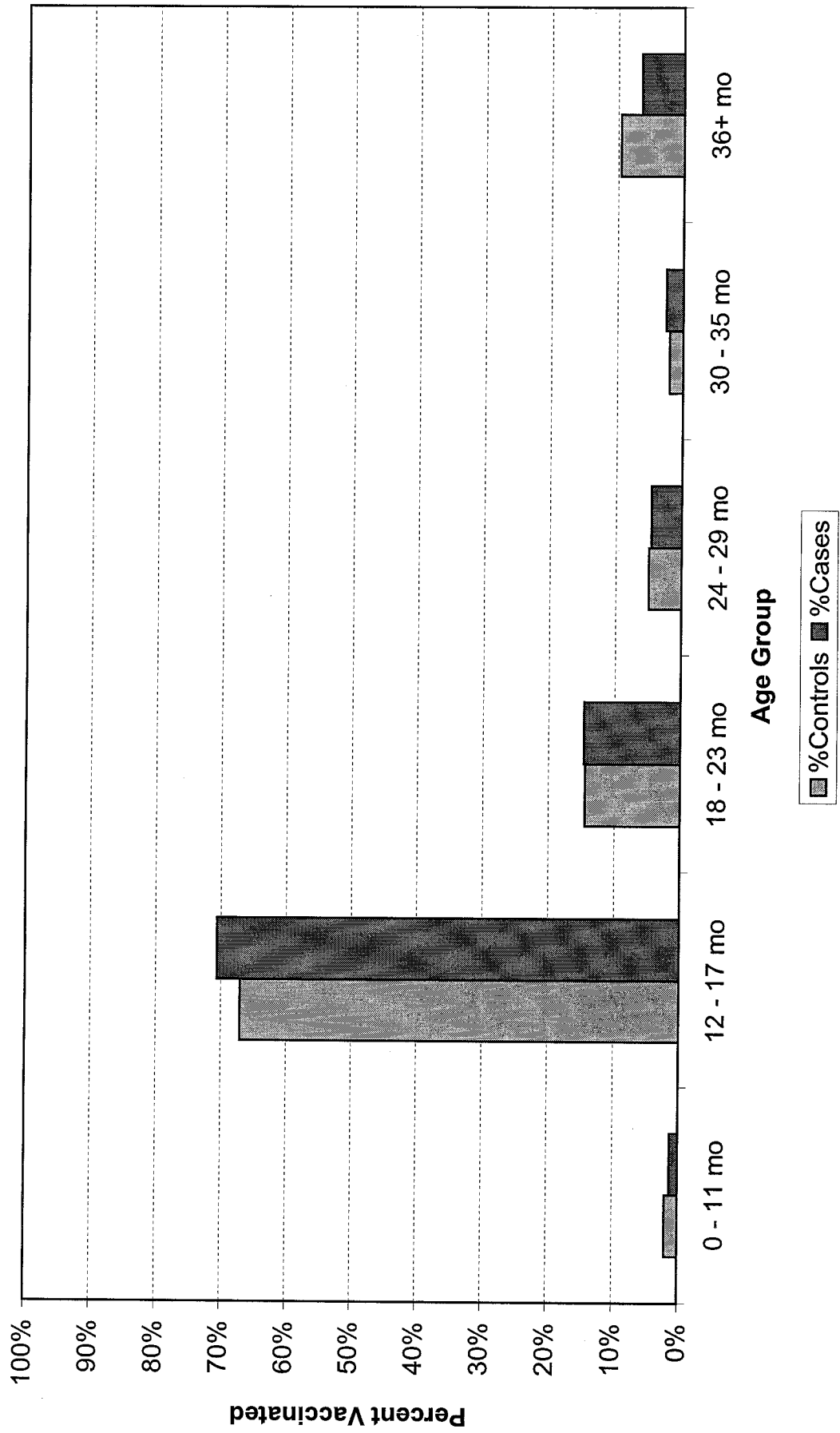
2) Unmatched BC Sample	Age Group	Controls	%Controls	Cases	%Cases	OR	- 95% CI	+ 95% CI
	0 - 11 mo	10	1.0%	2	0.6%	0.8	0.2	4.0
	12 - 17 mo	744	70.9%	251	69.9%	1.4	0.8	2.3
	18 - 23 mo	159	15.2%	59	16.4%	1.5	0.8	2.7
	24 - 29 mo	42	4.0%	16	4.5%	1.5	0.7	3.3
	30 - 35 mo	17	1.6%	12	3.3%	2.9	1.2	7.0
	36+ mo	77	7.3%	19	5.3%	--	--	--
	<b>Total</b>	<b>1049</b>	<b>100.0%</b>	<b>359</b>	<b>100.0%</b>			

\* Overall test of distribution is not statistically significant

3) Matched BC Sample	Age Group	Controls	%Controls	Cases	%Cases	OR	- 95% CI	+ 95% CI
	0 - 11 mo	8	1.4%	2	0.6%	0.7	0.1	4.0
	12 - 17 mo	406	70.5%	219	70.4%	1.4	0.7	2.7
	18 - 23 mo	87	15.1%	52	16.7%	1.5	0.8	3.1
	24 - 29 mo	28	4.9%	13	4.2%	1.3	0.5	3.2
	30 - 35 mo	8	1.4%	9	2.9%	2.4	0.7	7.7
	36+ mo	39	6.8%	16	5.1%	--	--	--
	<b>Total</b>	<b>576</b>	<b>100.0%</b>	<b>311</b>	<b>100.0%</b>			

\* Overall test of distribution is not statistically significant

**Figure 2: Age of 1st MMR Vaccination by Case Status  
For Total Sample**



*Demographic*

Table 2: Matched Statistical Analyses for Case Subgroups

Sample	Case Subgroup	Cases	< 18 Months			< 24 Months			< 36 Months		
			OR	L95CI	U95CI	OR	L95CI	U95CI	OR	L95CI	U95CI
Total Sample	All Cases	629	1.12	0.92	1.39	1.20	0.95	1.60	<del>1.58</del> 1.07	1.13	2.19
	Males	505	1.24	0.98	1.56	1.31	0.98	1.77	1.72	1.13	2.60
	Females	124	0.82	0.52	1.30	0.98	0.56	1.71	1.09	0.53	2.26
	Aged 3 - 5 Years	215	1.08	0.73	1.61	1.67	0.95	2.92	2.28	0.96	5.41
	Aged 6 - 10 Years	414	1.16	0.91	1.48	1.13	0.84	1.52	1.39	0.93	2.07
Birth Certificate Sample	All Cases	311	0.95	0.67	1.33	1.04	0.66	1.63	1.30	0.67	2.55
	Males	243	0.98	0.67	1.44	1.08	0.65	1.80	1.84	0.84	4.04
	Females	68	0.77	0.32	1.82	0.80	0.24	2.68	0.19	0.03	1.31
	Aged 3 - 5 Years	111	0.78	0.39	1.54	1.72	0.62	4.77	2.82	0.56	14.28
	Aged 6 - 10 Years	200	0.99	0.66	1.50	0.88	0.52	1.50	1.08	0.50	2.34

*1st MMR 1,476*

*Any Measles 1,492*

*Any Measles, Mumps, Rubella 1,482*

Table 3: Matched Statistical Analyses for Clinical Case Subgroups

Sample	Case Subgroup	Cases	< 18 Months			< 24 Months			< 36 Months		
			OR	L95CI	U95CI	OR	L95CI	U95CI	OR	L95CI	U95CI
Total Sample	No Pre-Existing Conditions < 1 Year	394	1.08	0.83	1.40	1.15	0.83	1.59	1.49	0.95	2.35
	Regression or Plateau	80	1.46	0.83	2.60	1.45	0.69	3.04	1.83	0.62	5.45
	With Mental Retardation	378	1.06	0.82	1.38	1.10	0.80	1.52	1.22	0.80	1.86
	Without Mental Retardation	251	1.26	0.90	1.77	1.52	0.97	2.39	2.60	1.27	5.32
Birth Certificate Sample	No Pre-Existing Conditions < 1 Year	187	1.06	0.68	1.64	1.04	0.57	1.89	1.79	0.75	4.26
	Regression or Plateau	31	1.07	0.28	4.05	0.57	0.09	3.58	1.10	0.18	6.62
	With Mental Retardation	179	1.12	0.71	1.77	0.94	0.53	1.68	0.79	0.36	1.72
	Without Mental Retardation	132	0.74	0.43	1.26	1.21	0.55	2.69	8.02	0.97	66.21 *

\* OR based on 2 cases vaccinated >= 36 months

**Table 4: Unmatched Adjusted Statistical Analyses**

Case Subgroup	Cases	< 18 Months			< 24 Months			< 36 Months		
		OR	L95CI	U95CI	OR	L95CI	U95CI	OR	L95CI	U95CI
All Cases	359	0.85	0.65	1.12	0.90	0.63	1.31	1.33	0.78	2.26
White/Other	220	0.92	0.63	1.34	0.85	0.49	1.49	1.07	0.48	2.40
Black	139	0.77	0.51	1.17	0.93	0.56	1.53	1.49	0.73	3.04
Maternal Age < 35 Years	298	0.92	0.68	1.24	0.57	0.16	2.04	1.88	0.15	23.65
Maternal Age 35+ Years	61	0.81	0.53	1.22	0.95	0.65	1.40	1.30	0.76	2.24
Maternal Education <16 Years	238	0.92	0.67	1.26	0.93	0.63	1.40	1.19	0.67	2.09
Maternal Education 16+ Years	121	0.68	0.38	1.20	0.83	0.32	2.20	3.51	0.69	17.94
Birth Weight < 2500 gms	49	0.49	0.18	1.37	0.40	0.13	1.17	1.09	0.27	4.37
Birth Weight >= 2500 gms	310	0.92	0.68	1.23	0.97	0.65	1.45	1.33	0.74	2.37

**Table 5: Factors Associated with Case Selection**

Sample	Case Subgroup	Cases	< 18 Months			< 24 Months			< 36 Months		
			OR	L95CI	U95CI	OR	L95CI	U95CI	OR	L95CI	U95CI
Total	Records in School Sources Only	258	1.13	0.92	1.39	1.23	0.95	1.60	2.82	1.51	5.25
	Records from Multiple Sources and/or Clinics	371	1.24	0.98	1.56	1.31	0.98	1.77	1.00	0.64	1.57
	Previous ASD Dx	396	0.82	0.52	1.30	0.98	0.56	1.71	1.27	0.82	1.94
	No Previous ASD Dx	233	1.08	0.83	1.40	1.15	0.83	1.59	2.26	1.17	4.38
Birth Certificate	Records in School Sources Only	125	1.29	0.74	2.25	0.85	0.44	1.64	1.66	0.62	4.44
	Records from Multiple Sources and/or Clinics	186	0.81	0.51	1.27	1.32	0.68	2.57	1.00	0.39	2.60
	Previous ASD Dx	199	0.93	0.61	1.42	1.16	0.65	2.06	1.13	0.50	2.56
	No Previous ASD Dx	112	0.93	0.51	1.72	0.83	0.39	1.78	1.85	0.55	6.22

706

	<u>Cases</u>	<u>Controls</u>
660		
{ 21	13	5
4	3	1
54	31	23
650	608	42
3	3	0
1	1	0
1	1	0
	<hr/>	
	647	



629