

Sample Selection for MMR/Autism Study

Selection Criteria	Controls		Cases	
	Yes	No	Yes	No
Available Sample	2143		706	
Valid (CASENUM)	2113	30	706	0
Confirmed Autism Case	2113	0	660	46
Matched Cases and Controls	1912	201	647	13
Original 3 Controls	1891	21	647	0
Missing Age Data	1890	1	647	0
Missing MMR Vaccine Date (1,2)	1876	14	629	18

1) 11 controls were missing their entire vaccination record

2) 14 cases were missing their entire vaccination record

check with IA NUM

Table 1: Preliminary Descriptive Statistics For Entire Sample *

	Category	Controls		Cases	
		N	Percent	N	Percent
Age 1996	3 - 5 yrs	635	34%	215	34%
	6 - 8 yrs	973	52%	321	51%
	9 - 10 yrs	268	14%	93	15%
	Total	1876	100%	629	100%
Sex	Male	1506	80%	505	80%
	Female	370	20%	124	20%
	Total	1876	100%	629	100%
Race	White	930	52%	336	55%
	Black	674	38%	232	38%
	Other	175	10%	40	7%
	Total	1779	100%	608	100%
Co-Existing DD	CP	NA	NA	31	5%
	MR	NA	NA	378	60%
	VI	NA	NA	8	1%
	HI	NA	NA	7	1%
	Epilepsy	NA	NA	49	8%
	Non-Isolated Autism	NA	NA	400	64%
Pre-existing Condition Delay < 1	Yes	NA	NA	79	13%
	Yes	NA	NA	186	30%
	Yes	NA	NA	222	35%
	No	NA	NA	407	65%
Vaccination Exemption	Yes	1	0.1%	1	0.2%
Age of MMR Vaccination	0 - 11 mo	37	2.0%	8	1.3%
	12 - 17 mo	1258	67.1%	444	70.6%
	18 - 23 mo	271	14.4%	92	14.6%
	24 - 29 mo	93	5.0%	29	4.6%
	30 - 35 mo	38	2.0%	16	2.5%
	36+ mo	179	9.5%	40	6.4%
	Total	1876	100.0%	629	100.0%

Birth Defects = 6

Recorded

* All subjects reported in table had date of receipt of MMR vaccine
 * All cases are confirmed cases

*add
 - Age of 1st cov on
 - Delay/Regression*

Table 2: Preliminary Descriptive Statistics for Birth Certificate Variables

Variable	Category	Controls		Cases	
		N	Percent	N	Percent
Age in 1996	3 - 5 yrs	382	36%	127	35%
	6 - 8 yrs	552	53%	182	51%
	9 - 10 yrs	115	11%	50	14%
	Total	1049	100%	359	100%
Sex	Male	834	80%	286	80%
	Female	215	20%	73	20%
	Total	1049	100%	359	100%
Race	White	578	55%	201	56%
	Black	405	39%	139	39%
	Other	66	6%	19	5%
	Total	1049	100%	359	100%
Mothers Age	< 20 yrs	102	10%	16	4%
	20 - 34 yrs	823	78%	282	79%
	35+ yrs	124	12%	61	17%
	Total	1049	100%	359	100%
Maternal Race	White	618	59%	209	58%
	Black	399	38%	138	38%
	Other	30	3%	12	3%
	Total	1047	100%	359	100%
Maternal Educ	<= 12 yrs	485	46%	138	38%
	13 - 15 yrs	259	25%	100	28%
	16+ yrs	305	29%	121	34%
	Total	1049	100%	359	100%
Birth Weight	0 - 1499 gms	11	1%	12	3%
	1500 - 2499 gms	55	5%	37	10%
	2500 + gms	983	94%	310	86%
	Total	1049	100%	359	100%
Multiplicity	Singleton	1017	97%	333	93%
	Twin +	32	3%	26	7%
	Total	1049	100%	359	100%
Parity	1st Born	462	44%	151	42%
	2nd or Higher	578	56%	206	58%
	Total	1040	100%	357	100%

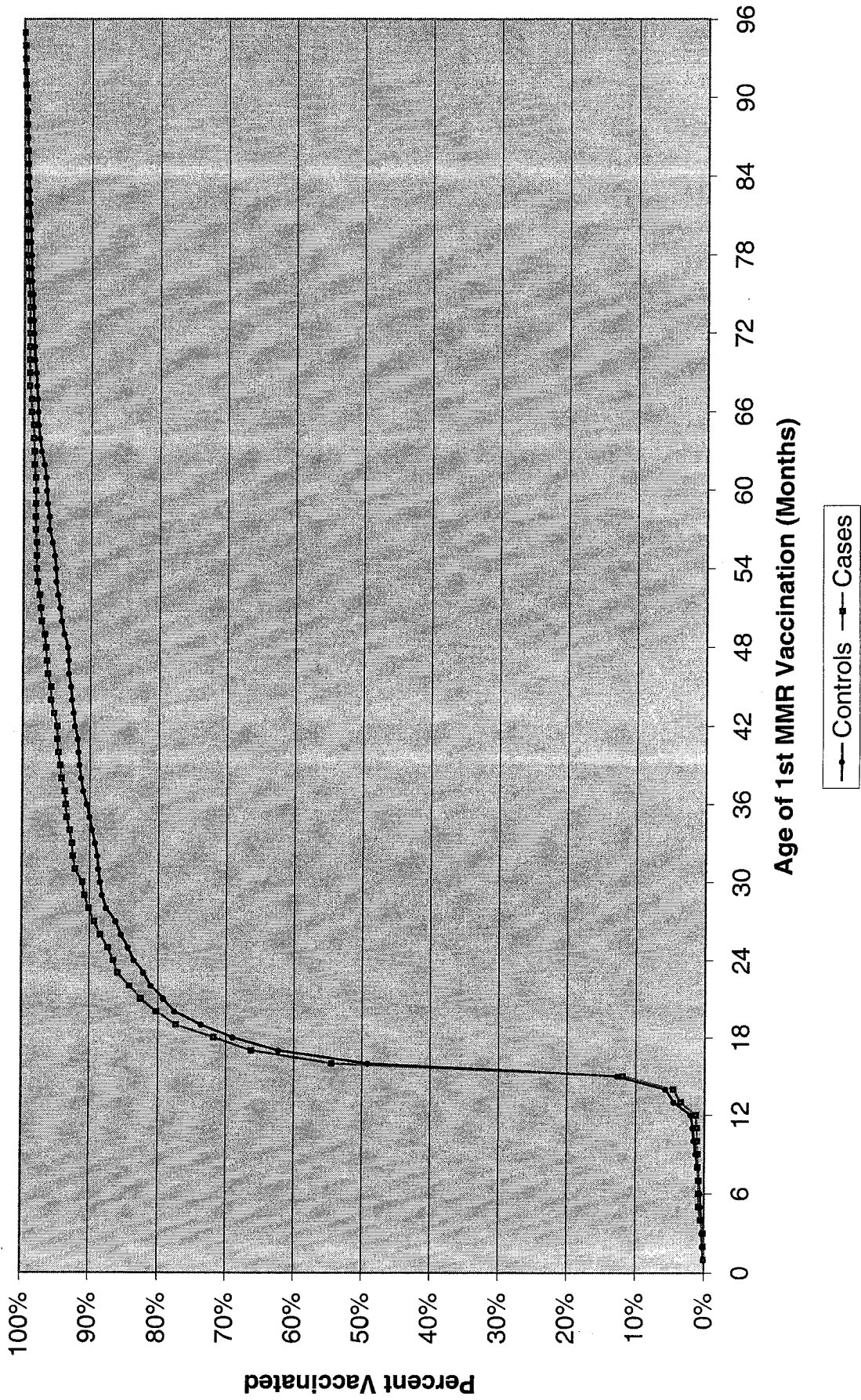
* All subjects reported in table had date of receipt of MMR vaccine

* All cases are confirmed cases

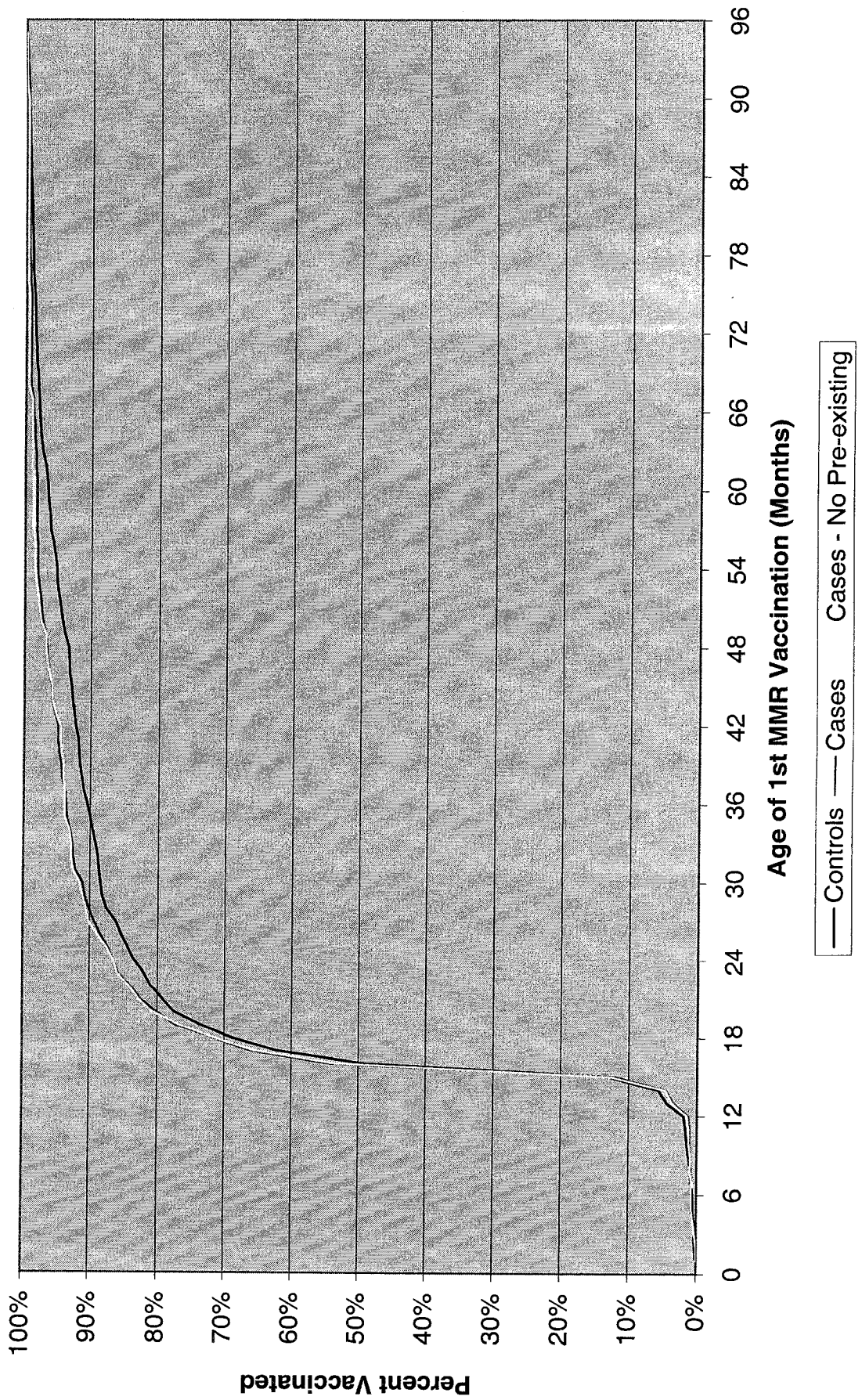
Table 3: Preliminary Statistical Analyses

Sample	Exposure Variable	Subsample	Cases	Univariate		Multivariate			
				OR	L95CI	OR	L95CI	OR	U95CI
Total	MMR < 18 Mo	All Subjects	629	1.13	0.92	1.39			
		Isolated	229	1.21	0.84	1.73			
		Non-Isolated	400	1.10	0.86	1.41			
		Delay or Pre-existing Condition	222	1.13	0.80	1.60			
		No Delay or Pre-Existing Condition	407	1.13	0.88	1.47			
	MMR < 24 Mo	All Subjects	629	1.23	0.95	1.60			
		Isolated	229	1.48	0.92	2.39			
		Non-Isolated	400	1.14	0.83	1.55			
		Delay or Pre-existing Condition	222	1.32	0.85	2.04			
		No Delay or Pre-Existing Condition	407	1.19	0.86	1.64			
Birth Certificate	MMR < 18 Mo	All Subjects	359	1.00	0.72	1.38	0.95	0.67	1.33
		Isolated	139	0.77	0.45	1.30	0.72	0.41	1.26
		Non-Isolated	220	1.16	0.77	1.76	1.10	0.71	1.71
		Delay or Pre-existing Condition	133	0.77	0.45	1.32	0.61	0.34	1.10
		No Delay or Pre-Existing Condition	226	1.15	0.76	1.74	1.11	0.72	1.70
	MMR < 24 Mo	All Subjects	359	1.14	0.74	1.75	1.04	0.66	1.63
		Isolated	139	1.16	0.54	2.51	1.10	0.49	2.46
		Non-Isolated	220	1.13	0.67	1.90	1.00	0.57	1.76
		Delay or Pre-existing Condition	133	1.19	0.86	1.64	0.83	0.40	1.74
		No Delay or Pre-Existing Condition	226	1.18	0.68	2.07	1.12	0.62	2.01

Age of 1st MMR Vaccination by Case Status



Age of 1st MMR Vaccination by Case Status



Age of 1st MMR Vaccination by Case Status

