

4/17/2002

Sample Selection for MMR/Autism Study

Selection Criteria	Controls			Cases		
	Yes	No	No%	Yes	No	No%
Available Sample	2143			706		
Valid CASENUM	2113	30	1%	706	0	0%
Confirmed Autism Case	2113	0	0%	660	46	7%
Matched Cases and Controls	1912	201	10%	647	13	2%
Original 3 Controls	1891	21	1%	647	0	0%
Missing Age Data	1890	1	0%	647	0	0%
Missing MMR Vaccine Date (1,2)	1876	14	1%	629	18	3%

1) 11 controls were missing their entire vaccination record

2) 14 cases were missing their entire vaccination record

Table 1: 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%

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

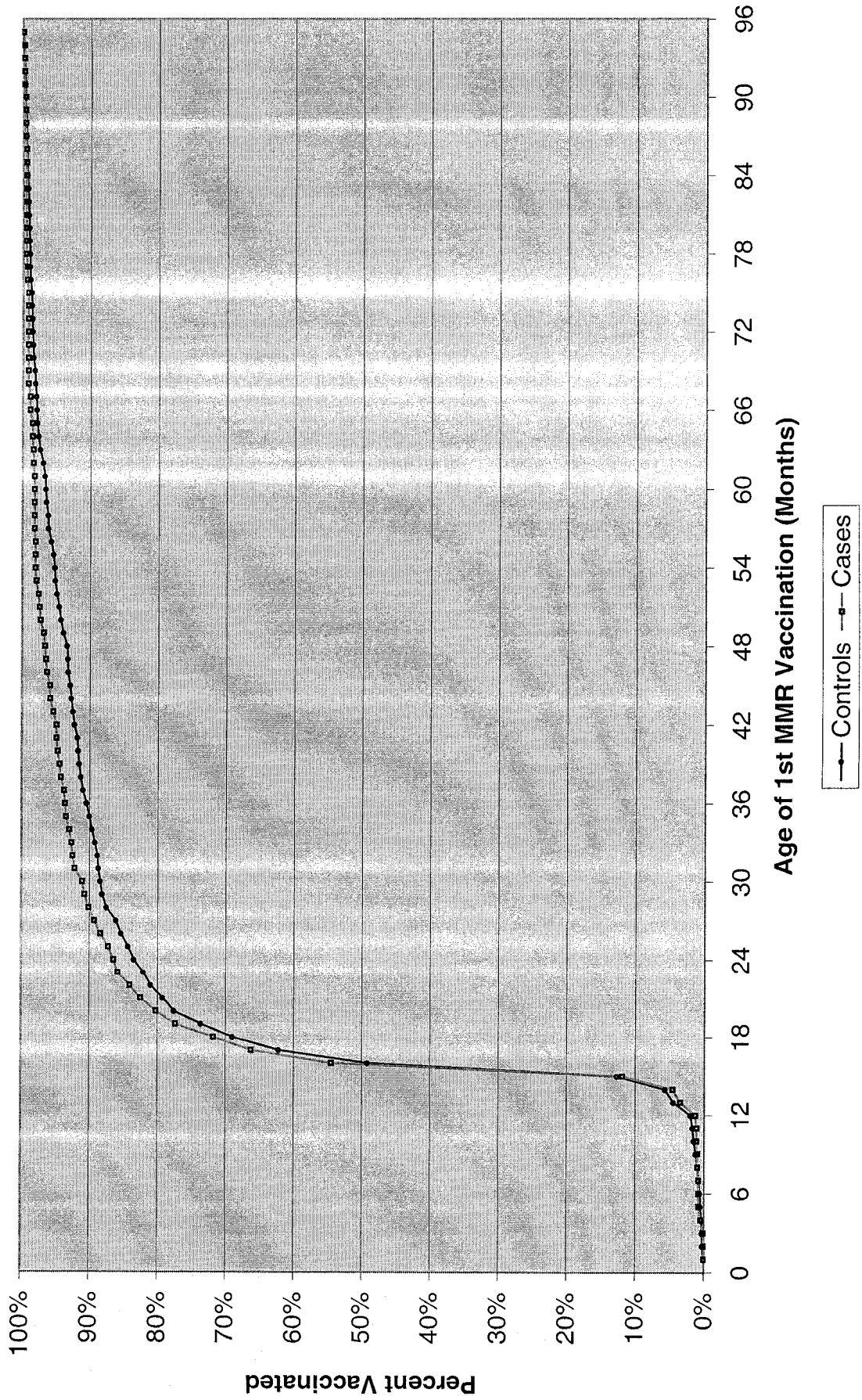
* All cases are confirmed cases

Table 2: Descriptive Statistics for Autism Cases

Conditions	Yes	%	No	%	Total
Cerebral Palsy	31	5%	598	95%	629
Mental Retardation	378	60%	251	40%	629
Visual Impairment	8	1%	621	99%	629
Hearing Impairment	7	1%	622	99%	629
Epilepsy	49	8%	580	92%	629
Birth Defects	5	1%	624	99%	629
Non-Isolated Subjects	405	64%	224	36%	629
Delay < 1 Year of Age	186	30%	443	70%	629
Pre-existing Condition	79	13%	550	87%	629
Delay < 1 Year of Age or Pre-existing Condition	222	35%	407	65%	629
Any of the above conditions	475	76%	154	24%	629

Updated

Age of 1st MMR Vaccination by Case Status



Age of 1st MMR Vaccination by Case Status

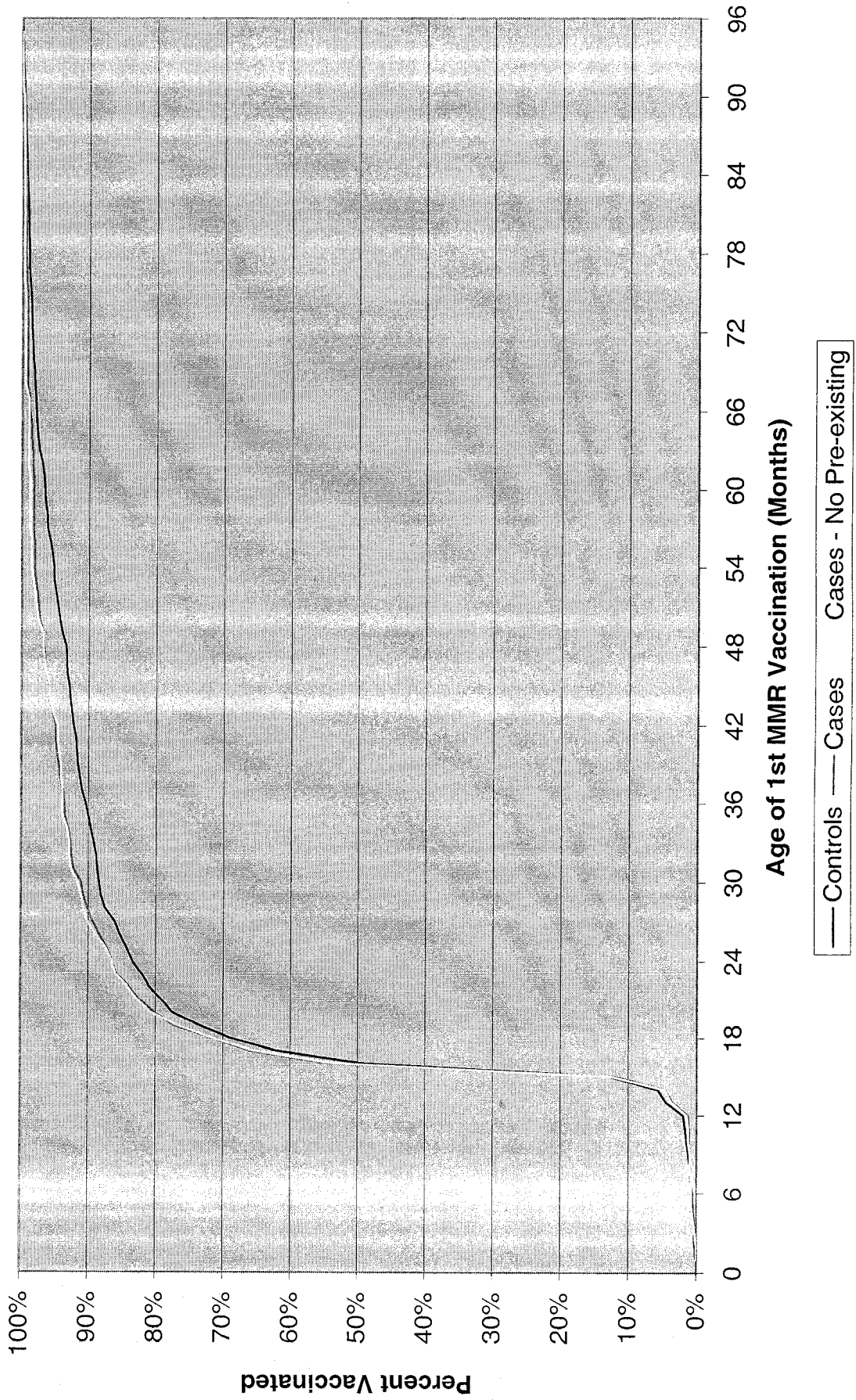


Table 3: Descriptive Statistics for Birth Certificate Variables

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 4: Statistical Analyses

Sample	Exposure Variable	Subsample	Cases	Univariate			Multivariate		
				OR	L95CI	U95CI	OR	L95CI	U95CI
Total	MMR < 18 Mo	All Subjects	629	1.13	0.92	1.39			
		Isolated	224	1.21	0.84	1.75			
		Non-Isolated	405	1.10	0.86	1.41			
		Delay or Pre-existing Condition	212	1.09	0.77	1.56			
		No Delay or Pre-Existing Condition	417	1.16	0.90	1.49			
		Any condition	475	1.21	0.92	1.60			
		No condition	154	1.04	0.76	1.42			
	MMR < 24 Mo	All Subjects	629	1.23	0.95	1.60			
		Isolated	224	1.52	0.93	2.48			
		Non-Isolated	405	1.19	0.89	1.55			
		Delay or Pre-existing Condition	212	1.27	0.81	1.97			
		No Delay or Pre-Existing Condition	417	1.21	0.88	1.68			
		Any condition	475	1.54	1.08	2.21			
		No condition	154	0.93	0.64	1.37			
Birth Certificate	MMR < 18 Mo	All Subjects	359	1.00	0.72	1.38			
		Isolated	135	0.81	0.47	1.38			
		Non-Isolated	224	1.12	0.74	1.70			
		Delay or Pre-existing Condition	129	0.76	0.44	1.31			
		No Delay or Pre-Existing Condition	230	1.15	0.77	1.73			
		Any condition	225	0.91	0.60	1.37			
		No condition	134	1.16	0.68	1.99			
	MMR < 24 Mo	All Subjects	359	1.14	0.74	1.75			
		Isolated	135	1.14	0.74	1.75			
		Non-Isolated	224	1.07	0.64	1.79			
		Delay or Pre-existing Condition	129	1.04	0.53	2.06			
		No Delay or Pre-Existing Condition	230	1.20	0.69	2.11			
		Any condition	225	1.43	0.81	2.53			
		No condition	134	0.79	0.40	1.59			

4 groups

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