

Sample Selection for MMR/Autism Study

Selection Criteria	Controls			Cases		
	Remaining Sample	Removed	Percent	Remaining Sample	Removed	Percent
Initial Sample	1912	NA	NA	647	NA	NA
Removed Extra 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: 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	Yes	NA	NA	79	13%
Delay < 1	Yes	NA	NA	186	30%
Pre-existing Condition or Delay < 1	Yes	NA	NA	222	35%
Median Age of 1st Concern	Months		19.1	18.1	19.3
Age of MMR	0 - 11 mo	37	2.0%	8	1.3%
	12 - 15 mo	886	47.2%	335	53.3%
	16 - 18 mo	459	24.5%	144	22.9%
	19 - 23 mo	184	9.8%	57	9.1%
	24 - 35 mo	131	7.0%	45	7.2%
	36+ mo	179	9.5%	40	6.4%
	Total	1876	100.0%	629	100.0%

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

* All cases are confirmed cases

*Coleen Boyle's
Notes from Meeting*

*0-11 mo early
12-18 " on time
19-36 late*

Table 3: Analyses Using Total Sample

Sample	Cases	Variable	Univariate		
			OR	L95CI	U95CI
Total	596	MMR < 18	1.13	0.92	1.39
		MMR < 36	1.53	1.07	2.19
	MMR Categories				
		0 - 11 mo	1.00	0.43	2.31
		12 - 15 mo	1.68	1.16	2.43
		16 - 18 mo	1.38	0.93	2.05
		19 - 23 mo	1.37	0.87	2.15
		24 - 35 mo	1.57	0.97	2.56
	36+ mo	1.00	1.00	1.00	
Isolated <i>vs</i> <i>missed/stc</i>	229	MMR < 18	1.21	0.84	1.73
		MMR < 36	2.53	1.18	5.41
	MMR Categories				
		0 - 11 mo	1.27	0.24	6.81
		12 - 15 mo	2.77	1.28	5.99
		16 - 18 mo	2.28	1.02	5.09
		19 - 23 mo	1.83	0.72	4.67
		24 - 35 mo	2.59	0.98	6.82
	36+ mo	1.00	1.00	1.00	
Non-Delayed	443	MMR < 18	1.22	0.96	1.56
		MMR < 36	1.67	1.09	2.57
	MMR Categories				
		0 - 11 mo	1.29	0.48	3.46
		12 - 15 mo	1.83	1.17	2.85
		16 - 18 mo	1.54	0.97	2.47
		19 - 23 mo	1.41	0.82	2.43
		24 - 35 mo	1.71	0.96	3.04
	36+ mo	1.00	1.00	1.00	

Table 4: Descriptive Race Data

Case Status	Race	MMR	N	Percent
Controls	White	Early	1023	
	White	Late	82	7%
	Black	Early	589	
	Black	Late	85	13%
Cases	White	Early	351	
	White	Late	25	7%
	Black	Early	218	
	Black	Late	14	6%

Table 5: Analyses Using Birth Certificate Sample

Sample	Cases Variable	Univariate			Multivariate		
		OR	L95CI	U95CI	OR	L95CI	U95CI
Total	596 MMR < 18	1.00	0.72	1.38	0.95	0.67	1.33
	MMR < 36	1.45 *	0.76	2.76	1.30 *	0.67	2.55
	MMR Categories						
	0 - 11 mo	0.74	0.14	4.04	0.69	0.13	3.87
	12 - 15 mo	1.52	0.78	2.94	1.36	0.68	2.71
	16 - 18 mo	1.34	0.66	2.69	1.21	0.58	2.49
	19 - 23 mo	1.35	0.63	2.89	1.17	0.53	2.58
	24 - 35 mo	1.54	0.66	3.58	1.49	0.63	3.53
	36+ mo	1.00	1.00	1.00	1.00	1.00	1.00

*controlled for
BDF
not so*