

Gene

Agenda 11/07/2001

- 1) Data Privacy Issues
- 2) December 13 Seminar
- 3) Update on availability of Final Database
- 4) Analysis/Data entry for preexisting conditions and parental concern
- 5) Draft Intro and Methods for Paper
- 6) Discussion of Preliminary Descriptive Statistics

Table 1: Preliminary Descriptive Statistics For Entire Sample *

	Category	Controls		Cases		OR	P-Value
		N	Percent	N	Percent		
Age 1996	3 - 5 yrs	679	34%	200	34%		> .20
	6 - 8 yrs	1021	51%	309	52%		
	9 - 10 yrs	287	14%	87	15%		
	Total	1987	100%	596	100%		
Sex	Male	391	20%	112	19%		> .20
	Female	1596	80%	484	81%		
	Total	1987	100%	596	100%		
Race	White	948	48%	320	54%	1.00	0.014
	Black	751	38%	238	40%	0.94	
	Other	188	9%	37	6%	0.55	
	Missing	100	5%	1	0%		
	Total	1987	100%	596	100%		
Co-Existing DD	CP	NA	NA	31	5%		
	MR	NA	NA	354	59%		
	VI	NA	NA	8	1%		
	HI	NA	NA	5	1%		
	Epilepsy	NA	NA	45	8%		
	Any DD	NA	NA	374	63%		
Age of MMR	0 - 11 mo	40	2%	9	2%		
	12 - 15 mo	950	48%	313	53%		
	16 - 18 mo	475	24%	139	23%		
	19 - 23 mo	186	9%	54	9%		
	24 - 35 mo	144	7%	43	7%		
	36+ mo	192	10%	38	6%		
	Total	1987	100%	596	100%		

* All subjects reported in table had age of MMR vaccination

* Cases are confirmed cases (N=45 unconfirmed cases with age of MMR vaccination)

* 3 Cases were listed as controls using variable "CASE"

Table 2: Preliminary Descriptive Statistics for Birth Certificate Variables

Variable	Category	Controls		Cases		OR	P-Value
		N	Percent	N	Percent		
Age in 1996	3 - 5 yrs	412	37%	148	36%		> .20
	6 - 8 yrs	571	51%	200	49%		
	9 - 10 yrs	130	12%	62	15%		
	Total	1113	100%	410	100%		
Sex	Male	221	20%	78	19%		> .20
	Female	892	80%	332	81%		
	Total	1113	100%	410	100%		
Race	White	598	54%	222	54%	1.00	> .20
	Black	448	40%	168	41%	1.03	
	Other	67	6%	20	5%	0.85	
	Total	1113	100%	410	100%		
Mothers Age	< 20 yrs	107	10%	19	5%	1.00	0.022
	20 - 34 yrs	880	79%	326	80%	1.98	
	35+ yrs	126	11%	65	16%	2.55	
	Total	1113	100%	410	100%		
Maternal Race	White	639	57%	234	57%	1.00	> .20
	Black	443	40%	165	40%	1.03	
	Other	30	3%	11	3%	0.98	
	Total	1112	100%	410	100%		
Maternal Educ	<= 12 yrs	523	47%	147	36%	1.00	0.004
	13 - 15 yrs	271	24%	124	30%	1.82	
	16+ yrs	319	29%	139	34%	1.40	
	Total	1113	100%	410	100%		
Birth Weight	0 - 1499 gms	11	1%	13	3%	1.86	0.008
	1500 - 2499 gms	58	5%	44	11%	2.06	
	2500 + gms	1044	94%	353	86%	1.00	
	Total	1113	100%	410	100%		
Multiplicity	Singleton	1080	97%	383	93%	1.00	0.048
	Twin +	33	3%	27	7%	1.89	
	Total	1113	100%	410	100%		
Parity	1st Born	495	45%	183	45%	1.00	> .20
	2nd or Higher	604	55%	225	55%	0.90	
	Total	1099	100%	408	100%		

* All subjects reported in table had age of MMR vaccination and GA state birth certificate

* Cases are confirmed cases

Table 4: Descriptive Race Data

Sample	Variable	N	Cases	Percent
Total	Cases	2583	596	23%
	Race - Black	2523	1005	40%
	Vac < 36 Months	2628	2395	91%

Race	Vac < 36 Months	N	Cases	Percent
White/Other	No	110	24	22%
White/Other	Yes	1383	333	24%
*Black	No	106	14	13%
Black	Yes	883	224	25%

Sample	Variable	N	Cases	Percent
Birth Cert	Cases	1523	410	27%
	Race - Black	1523	616	40%
	Vac < 36 Months	1523	1421	93%

Race	Vac < 36 Months	N	Cases	Percent
White/Other	No	41	11	27%
White/Other	Yes	866	231	27%
Black	No	61	13	21%
Black	Yes	555	155	28%

Table 6: Associations Between Age of MMR Vaccination and Autism - Birth Certificate Sample

Sample	Cases	Variable	Univariate		Full Model		Reduced Model				
			OR	L95CI	OR	L95CI	OR	L95CI			
Birth Cert Matched	410	MMR < 18	0.95	0.70	1.30						
		MMR < 36	1.37	0.76	2.48	1.24	0.67	2.31	1.25	0.68	2.30
MMR Categories											
		0 - 11 mo	0.89	0.21	3.77						
		12 - 15 mo	1.42	0.77	2.60						
		16 - 18 mo	1.21	0.64	2.29						
		19 - 23 mo	1.42	0.70	2.86						
		24 - 35 mo	1.61	0.74	3.51						
		36+ mo	1.00	1.00	1.00						
Birth Cert Unmatched	410	MMR < 18	0.94	0.73	1.21						
		MMR < 36	1.23	0.77	1.98	1.17	0.72	1.91	1.20	0.74	1.94
MMR Categories											
		0 - 11 mo	1.02	0.30	3.44						
		12 - 15 mo	1.26	0.77	2.04						
		16 - 18 mo	1.14	0.69	1.91						
		19 - 23 mo	1.15	0.64	2.07						
		24 - 35 mo	1.53	0.82	2.83						
		36+ mo	1.00	1.00	1.00						
Birth Cert Unmatched Blacks	168	MMR < 36	1.46	0.77	2.78	1.58	0.81	3.07	1.62	0.84	3.12

Table 7: Four Group Race Comparison

Race	Vaccination	OR	L95% CI	U95% CI	P-Value
White	< 36 Months	2.28	1.18	4.40	0.01
Black	< 36 Months	2.56	1.36	4.81	0.00
White	>= 36 Months	1.95	0.88	4.34	0.10
Black	>= 36 Months	1.00	ref	ref	ref
White	< 36 Months	1.00	ref	ref	ref
Black	< 36 Months	1.12	0.86	1.47	0.40
White	>= 36 Months	0.85	0.52	1.40	0.53
Black	>= 36 Months	0.44	0.23	0.84	0.01

Table 8: Descriptive Data for Blacks

Variable	Black Controls			Black Controls			Black Cases			Black Cases		
	Sample	Mean	Freq	Sample	Mean	Freq	Sample	Mean	Freq	Sample	Mean	Freq
Case	92	0.00	0	659	0.00	0	14	1.00	14	224	1.00	224
Vac < 36 mo	92	0.00	0	659	1.00	659	14	0.00	14	224	1.00	224
Age	92	6.83	628	659	6.40	4219	14	7.86	110	224	6.44	1443
Sex - Male	92	0.75	69	659	0.78	512	14	0.64	9	224	0.83	185
M_AGEC11	48	0.81	39	400	0.78	311	13	0.85	11	155	0.82	127
M_AGEC12	48	0.02	1	400	0.06	24	13	0.08	1	155	0.10	16
M_EDUC11	48	0.27	13	400	0.26	103	13	0.54	7	155	0.32	49
M_EDUC12	48	0.15	7	400	0.14	56	13	0.15	2	155	0.18	28
B_WGTC11	48	0.02	1	400	0.01	5	13	0.08	1	155	0.03	5
B_WGTC12	48	0.10	5	400	0.07	27	13	0.15	2	155	0.14	22
B_MULTB	48	0.02	1	400	0.03	11	13	0.08	1	155	0.07	10