

MMR and Autism

Characteristics of Children with Autism

- The overall prevalence of autism among 3-10 year old children is **3.4/1,000**.
- The prevalence of autism among:
 - children that had information abstracted at schools only was **1.4/1,000**
 - children that had information abstracted at other sources was **2.1/1,000**
 - children with a previous diagnosis for ASD was **2.1/1,000**
- The prevalence of autism among both White and Black children was **3.4/1,000**
- The prevalence of autism among White children who had information abstracted at schools only **1/1,000** while the prevalence among Black children was **1.9/1,000**. The prevalence of White children who had information abstracted at other sources (both sources and non-school sources only) was **2.4/1,000** and the rate among Black children was **1.5/1,000**.
- The prevalence of autism among children with a previous diagnosis of autism was **2.1/1,000**
- The prevalence of autism among White children who had a previous diagnosis of ASD was **2.2/1,000** and the prevalence among Black children was **2.1/1,000**. The lack of difference between these racial groups may be because Black children are more likely to have mental retardation or severe symptoms which may raise concern by the parent and thus lead to earlier identification and diagnosis of these children.
- The prevalence rate of isolated autism was **1.3/1,000** while the prevalence rate of non-isolated autism was **2.1/1,000**.
- The prevalence of isolated autism among White children is **1.6/1,000** children while the prevalence of isolated autism was **0.8/1,000** in Black children. The prevalence of non-isolated autism was **1.8/1,000** in White children while the prevalence of non-isolated autism was **2.5/1,000** in Black children. The higher prevalence of non-isolated autism among Black children is attributable to the higher prevalence of MR among these children.

Administrative information on cases who don't match with the birth certificate files:

- Only 26% of the cases that did not match the birth certificate files had birth hospital information.
- Of those with birth hospital information, 26% were born at Grady while 19% were born at Northside, and 11% were at Kennestone Hosp.
- Of the children who did not match with the birth certificates, 26% were attending schools in Cobb County, 23% in Gwinnett, and 18% in Fulton and Dekalb with smaller percentages at other school systems.

Adapted from the Autism Prevalence Paper

Table: A comparison between children who had information abstracted at school sources only and children who had information abstracted at non-school sources only.

Characteristics	School Sources Only		Nonschool Sources Only	
	N	%	N	%
Age of Child				
3-4 years old	41	73	15	27
5-10 years old	350	95	17	5
Race*				
White	168	88	24	13
Black	206	98	5	2
Maternal Education**				
< 12 years	35	92	3	8
= 12 years	102	97	3	3
13-15 years	64	97	2	3
≥ 16 years	49	73	18	27
Maternal Age**				
< 20	20	95	1	5
20-29	145	94	9	6
30-34	58	87	9	13
=> 35	27	79	7	21

*Other race category not shown in table due to small sample size

**Information obtained from birth certificate files of children born in Georgia

MMR/Autism Study

Table: Comparison of the demographic profile of children with autism who were vaccinated before and after 36 months

Characteristic	< 36 months		≥ 36 months		p-value
	N	%	N	%	
Age Group					0.0114
3-5 year olds	122	37	2	11	
6-10 year olds	210	63	17	89	
Source					0.1785
School only	137	41	7	37	
Non-school only	195	59	12	63	
Previous Diagnosis					0.0793
No	122	37	4	21	
Yes	210	63	15	79	
Cognitive Fx Status					0.0178
No MR	144	43	3	16	
MR	188	57	16	84	
Child's Sex					0.0547
Male	201	61	8	42	
Female	131	39	11	58	
Mother's race					0.0442
White	268	81	12	63	
Black	64	19	7	37	
Mother's Age					0.0037
< 20 years	12	4	2	11	
20-29 years	171	52	10	53	
30-34 years	91	27	6	32	
≥ 35 years	58	17	1	5	
Mother's Education					0.0420
< 11 years	19	6	3	16	
=12 years	107	32	6	32	
13-15 years	92	28	8	42	
≥ 16 years	114	34	2	11	
Birth weight					0.0021
< 1500 grams	151	46	3	16	
1500-2499 grams	22	7	2	11	
≥ 2500 grams	159	48	14	74	
Gestational Age					0.0429
< 37 weeks	58	17	3	16	
37-41 weeks	227	68	12	63	
≥ 42 weeks	47	14	4	21	
Multiplicity					0.2616
Singleton	308	93	17	89	
Higher-order	24	7	2	11	
Parity					0.0730
First-born	142	43	5	26	
Second-born +	190	57	14	74	

Table: Demographic profile of children with autism based on cognitive functioning status (MR and No MR)

Characteristic	No MR		MR		P-value
	N	%	N	%	
Age Group					0.0771
3-5 year olds	55	37	72	34	
6-10 year olds	95	63	140	66	
MMR age					0.0106
< 36 months	144	98	188	92	
> 36 months	3	2	16	8	
Previous Diagnosis					0.0465
No	57	38	93	44	
Yes	93	62	119	56	
Source					0.0395
School	60	40	71	33	
Non-school	90	60	141	67	
Child's Sex					0.0320
Male	126	84	164	77	
Female	24	16	48	23	
Mother's race					<0.0001
White	109	73	102	48	
Black	41	27	110	52	
Mother's Age					0.0014
< 20 years	5	3	9	4	
20-29 years	74	49	114	54	
30-34 years	44	29	56	26	
≥ 35 years	27	18	33	16	
Mother's Education					<0.0001
< 11 years	8	5	16	8	
=12 years	34	23	86	41	
13-15 years	49	33	53	25	
≥ 16 years	59	39	57	27	
Birth weight					0.0012
< 1500 grams	75	50	82	39	
1500-2499 grams	7	5	17	8	
≥ 2500 grams	68	45	113	53	
Gestational Age					0.0113
< 37 weeks	24	16	39	18	
37-41 weeks	103	69	143	67	
≥ 42 weeks	23	15	30	14	
Multiplicity					0.0880
Singleton	142	95	194	92	
Higher-order	8	5	18	8	
Parity					<0.0001
First-born	77	51	75	35	
Second-born +	73	49	137	65	

Table: Characteristics of children who did and did not have a previous diagnosis of autism

Characteristic	No Previous DX		Previous DX		p-value
	N	%	N	%	
Age Group					0.0038
3-5 year olds	57	43	70	30	
6-10 year olds	74	56	161	70	
MMR age					0.0793
< 36 months	122	97	210	93	
≥ 36 months	4	3	15	7	
Source					<0.0001
School only	89	68	61	26	
Non-school only	42	32	170	74	
Cognitive Fx Status					0.0395
No MR	60	46	90	39	
MR	71	54	141	61	
Child's Sex					0.0093
Male	113	86	177	77	
Female	18	14	54	23	
Mother's race					0.0843
White	75	57	136	59	
Black	56	43	95	41	
Mother's Age					0.0021
< 20 years	6	5	8	3	
20-29 years	66	50	122	53	
30-34 years	37	28	63	27	
≥ 35 years	22	17	38	16	
Mother's Education					<0.0001
< 11 years	13	10	11	5	
=12 years	40	31	80	35	
13-15 years	37	28	65	28	
≥ 16 years	41	31	75	32	
Birth weight					<0.0001
< 1500 grams	65	50	92	40	
1500-2499 grams	3	2	21	9	
≥ 2500 grams	63	48	118	51	
Gestational Age					0.0108
< 37 weeks	24	18	39	17	
37-41 weeks	86	66	160	69	
≥ 42 weeks	21	16	32	14	
Multiplicity					0.1603
Singleton	121	92	215	93	
Higher-order	10	8	16	7	
Parity					0.0861
First-born	54	41	98	42	
Second-born +	77	59	133	58	

Table: The demographic profile of children who had information abstracted at school sources only as compare to those who had information abstracted at other sources (both & non-school only)

Characteristic	School		Other source		p-value
	N	%	N	%	
Age Group					0.0016
3-5 year olds	40	27	87	41	
6-10 year olds	110	73	125	59	
MMR age					0.1785
< 36 months	137	95	195	94	
≥ 36 months	7	5	12	6	
Previous Dx					<0.0001
No	89	59	42	20	
Yes	61	41	170	80	
Cognitive Fx Status					0.0465
No MR	57	38	93	44	
MR	93	62	119	56	
Child's Sex					0.0638
Male	124	83	166	78	
Female	26	17	46	22	
Mother's race					<0.0001
White	64	43	147	69	
Black	86	57	65	31	
Mother's Age					<0.0001
< 20 years	10	7	4	2	
20-29 years	83	55	105	50	
30-34 years	36	24	64	30	
≥ 35 years	21	14	39	18	
Mother's Education					<0.0001
< 11 years	17	11	7	3	
=12 years	63	42	57	27	
13-15 years	40	27	62	29	
≥ 16 years	30	20	86	41	
Birth weight					<0.0001
< 1500 grams	50	33	107	50	
1500-2499 grams	9	6	15	7	
≥ 2500 grams	91	61	90	42	
Gestational Age					0.0104
< 37 weeks	27	18	36	17	
37-41 weeks	99	66	147	69	
≥ 42 weeks	24	16	29	14	
Multiplicity					0.1422
Singleton	138	92	198	93	
Higher-order	12	8	14	7	
Parity					0.0596
First-born	59	39	93	44	
Second-born +	91	61	119	56	

Table: The demographic profile of white children found at schools only, by age of MMR vaccination

Characteristic	White Children Found at Schools Only (N=64)				
	< 36 months		≥ 36 months		
	N	%	N	%	
Age Group					0.3437
3-5 year olds	21	33	1	100	
6-10 year olds	42	67	0	0	
Previous Dx					0.7031
No	44	70	1	100	
Yes	19	30	0	0	
Cognitive Fx Status					0.5000
No MR	32	51	0	0	
MR	31	49	1	100	
Child's Sex					0.8281
Male	52	83	1	100	
Female	11	17	0	0	
Mother's Age					0.0469
< 20 years	2	3	1	100	
20-29 years	32	51	0	0	
30-34 years	19	30	0	0	
≥ 35 years	10	16	0	0	
Mother's Education					0.1094
< 11 years	6	10	1	100	
=12 years	15	24	0	0	
13-15 years	19	30	0	0	
≥ 16 years	23	37	0	0	
Birth weight					0.5156
< 1500 grams	29	46	0	0	
1500-2499 grams	2	3	0	0	
≥ 2500 grams	32	51	1	100	
Gestational Age					0.7188
< 37 weeks	8	13	0	0	
37-41 weeks	45	71	1	100	
≥ 42 weeks	10	16	0	0	
Multiplicity					0.7947
Singleton	59	94	1	100	
Higher-order	4	6	0	0	
Parity					0.4062
First-born	25	40	1	100	
Second-born +	38	60	0	0	

Table: The demographic profile of black children were found at schools only, by age of MMR vaccination

Characteristic	Black Children Found at Schools Only (N=80)				
	< 36 months		≥ 36 months		
	N	%	N	%	
Age Group					0.2749
3-5 year olds	15	20	0	0	
6-10 year olds	59	80	6	100	
Previous Dx					0.0786
No	40	54	1	17	
Yes	34	46	5	83	
Cognitive Fx Status					0.3051
No MR	23	31	1	17	
MR	51	69	5	83	
Child's Sex					0.2183
Male	62	84	4	67	
Female	12	16	2	33	
Mother's Age					0.0291
< 20 years	6	8	1	17	
20-29 years	45	61	2	33	
30-34 years	13	18	2	33	
≥ 35 years	10	14	1	17	
Mother's Education					0.0718
< 11 years	7	9	1	17	
=12 years	42	57	3	50	
13-15 years	18	24	2	33	
≥ 16 years	7	9	0	0	
Birth weight					0.0764
< 1500 grams	20	27	0	0	
1500-2499 grams	7	9	0	0	
≥ 2500 grams	47	64	6	100	
Gestational Age					0.0598
< 37 weeks	17	23	0	0	
37-41 weeks	46	62	4	67	
≥ 42 weeks	11	15	2	33	
Multiplicity					0.5199
Singleton	66	89	6	100	
Higher-order	8	11	0	0	
Parity					0.3334
First-born	28	38	2	33	
Second-born +	46	62	4	67	

Table: Demographic profile of white children found at other sources (both and non-school sources), by age of MMR vaccination

Characteristic	White Children Found at Other Sources (N=145)				
	< 36 months		≥ 36 months		
	N	%	N	%	
Age Group					0.1202
3-5 year olds	58	42	1	14	
6-10 year olds	80	58	6	86	
Previous Dx					0.2821
No	27	20	2	29	
Yes	111	80	5	71	
Cognitive Fx Status					0.1455
No MR	73	53	2	29	
MR	65	47	5	71	
Child's Sex					0.2892
Male	110	80	5	71	
Female	28	20	2	29	
Mother's Age					0.0451
< 20 years	1	0.7	0	0	
20-29 years	61	44	3	43	
30-34 years	47	34	4	57	
≥ 35 years	29	21	0	0	
Mother's Education					0.0016
< 11 years	0	0	1	14	
=12 years	35	25	3	43	
13-15 years	34	25	2	29	
≥ 16 years	69	50	1	14	
Birth weight					0.0635
< 1500 grams	75	54	2	29	
1500-2499 grams	9	7	0	0	
≥ 2500 grams	54	39	5	71	
Gestational Age					0.0715
< 37 weeks	21	15	0	0	
37-41 weeks	100	72	5	71	
≥ 42 weeks	17	12	2	29	
Multiplicity					0.3254
Singleton	129	93	6	86	
Higher-order	9	7	1	14	
Parity					0.0746
First-born	66	48	1	14	
Second-born +	72	52	6	86	

Table: The demographic profile of black children found at other sources, by age of MMR vaccination

Characteristic	Black Children Found at Other Sources (N=62)				P-value
	< 36 months		≥ 36 months		
	N	%	N	%	
Age Group					0.0430
3-5 year olds	28	49	0	0	
6-10 year olds	29	51	5	100	
Previous Dx					0.3630
No	11	19	46	81	
Yes	0	0	5	100	
Cognitive Fx Status					0.2118
No MR	16	28	0	0	
MR	41	72	5	100	
Child's Sex					0.0896
Male	44	77	2	40	
Female	13	23	3	60	
Mother's Age					0.0776
< 20 years	3	5	0	0	
20-29 years	33	58	5	100	
30-34 years	12	21	0	0	
≥ 35 years	9	16	0	0	
Mother's Education					0.0313
< 11 years	6	11	0	0	
=12 years	15	26	0	0	
13-15 years	21	37	4	80	
≥ 16 years	15	26	1	20	
Birth weight					0.0245
< 1500 grams	27	47	1	20	
1500-2499 grams	4	7	2	40	
≥ 2500 grams	26	46	2	40	
Gestational Age					0.0494
< 37 weeks	12	21	3	60	
37-41 weeks	36	63	2	40	
≥ 42 weeks	9	16	0	0	
Multiplicity					0.2623
Singleton	54	95	4	80	
Higher-order	3	5	1	20	
Parity					0.2738
First-born	23	40	1	20	
Second-born +	34	60	4	80	

Table: The demographic profile of white children who were found at schools only, by previous diagnosis of ASD

Characteristic	White Children Found at Schools Only (N=64)				
	No Previous DX		Previous DX		
	N	%	N	%	
Age Group					0.2184
3-5 year olds	16	36	6	32	
6-10 year olds	29	64	13	68	
MMR age					0.7031
< 36 months	44	98	19	100	
> 36 months	1	2	0	0	
Cognitive Fx Status					0.0872
No MR	25	56	7	37	
MR	20	44	12	63	
Child's Sex					0.0101
Male	41	91	12	63	
Female	4	9	7	37	
Mother's Age					0.0310
< 20 years	2	4	1	5	
20-29 years	22	49	10	53	
30-34 years	14	31	5	26	
≥ 35 years	7	16	3	16	
Mother's Education					0.0020
< 11 years	6	13	1	5	
=12 years	10	22	5	26	
13-15 years	10	22	9	47	
≥ 16 years	19	42	4	21	
Birth weight					0.0166
< 1500 grams	22	49	7	37	
1500-2499 grams	0	0	2	11	
> 2500 grams	23	51	10	53	
Gestational Age					0.0103
< 37 weeks	3	7	5	26	
37-41 weeks	35	78	11	58	
≥ 42 weeks	7	16	3	16	
Multiplicity					0.0686
Singleton	44	98	16	84	
Higher-order	16	84	3	16	
Parity					0.2156
First-born	18	40	8	42	
Second-born +	27	60	11	58	

Table: The demographic profile of black children who were found at schools only, by previous diagnosis of ASD

Characteristic	Black Children Found at Schools Only (N=80)				P-value
	No Previous DX		Previous DX		
	N	%	N	%	
Age Group					0.0289
3-5 year olds	13	30	5	12	
6-10 year olds	31	70	37	88	
MMR age					0.0786
< 36 months	40	98	34	87	
> 36 months	1	2	5	13	
Cognitive Fx Status					0.0604
No MR	16	36	9	21	
MR	28	64	33	79	
Child's Sex					0.2076
Male	37	84	34	81	
Female	7	16	8	19	
Mother's Age					0.0024
< 20 years	4	9	3	7	
20-29 years	29	66	22	52	
30-34 years	5	11	12	29	
≥ 35 years	6	14	5	12	
Mother's Education					0.0064
< 11 years	6	14	4	10	
=12 years	24	55	24	57	
13-15 years	12	27	9	21	
≥ 16 years	2	5	5	12	
Birth weight					0.0065
< 1500 grams	15	34	6	14	
1500-2499 grams	3	7	4	10	
≥ 2500 grams	26	59	32	76	
Gestational Age					0.0025
< 37 weeks	14	32	5	12	
37-41 weeks	22	50	31	74	
≥ 42 weeks	8	18	6	14	
Multiplicity					0.0303
Singleton	37	84	41	98	
Higher-order	7	16	1	2	
Parity					0.1556
First-born	18	41	15	36	
Second-born +	26	59	27	64	

Table: The demographic profile of white children who were found at other sources, by previous diagnosis of ASD

Characteristic	White Children Found at Other Sources (N=145)				P-value
	No Previous DX		Previous DX		
	N	%	N	%	
Age Group					<0.0001
3-5 year olds	21	70	38	32	
6-10 year olds	9	30	79	70	
MMR age					0.2821
< 36 months	27	93	111	96	
> 36 months	2	7	5	4	
Cognitive Fx Status					0.1552
No MR	15	50	62	53	
MR	15	50	55	47	
Child's Sex					0.1788
Male	25	83	92	79	
Female	5	17	25	21	
Mother's Age					0.0053
< 20 years	0	0	1	0.9	
20-29 years	9	30	56	48	
30-34 years	13	43	39	33	
≥ 35 years	8	27	21	18	
Mother's Education					<0.0001
< 11 years	0	0	1	0.9	
=12 years	3	10	36	31	
13-15 years	12	40	25	21	
≥ 16 years	15	50	55	47	
Birth weight					0.0049
< 1500 grams	21	70	57	49	
1500-2499 grams	0	0	9	8	
≥ 2500 grams	9	30	51	44	
Gestational Age					0.0476
< 37 weeks	5	17	16	14	
37-41 weeks	21	70	86	74	
≥ 42 weeks	4	13	15	13	
Multiplicity					0.3124
Singleton	28	93	109	93	
Higher-order	2	7	8	7	
Parity					0.1478
First-born	13	43	56	48	
Second-born +	17	57	61	52	

Table: The demographic profile of black children found at other sources, by previous diagnosis of ASD

Characteristic	Black Children Found at Other Sources (N=62)				P-value
	No Previous DX		Previous DX		
	N	%	N	%	
Age Group					0.1281
3-5 year olds	7	58	21	40	
6-10 year olds	5	42	32	60	
MMR age					0.3630
< 36 months	11	100	46	90	
> 36 months	0	0	5	10	
Cognitive Fx Status					0.2038
No MR	4	33	12	23	
MR	8	67	41	77	
Child's Sex					0.2448
Male	10	83	39	74	
Female	2	17	14	26	
Mother's Age					0.0075
< 20 years	0	0	3	6	
20-29 years	6	50	34	64	
30-34 years	5	42	7	13	
≥ 35 years	1	8	9	17	
Mother's Education					0.0122
< 11 years	1	8	5	9	
=12 years	3	25	15	28	
13-15 years	3	25	22	42	
≥ 16 years	5	42	11	21	
Birth weight					0.0552
< 1500 grams	7	58	22	42	
1500-2499 grams	0	0	6	11	
≥ 2500 grams	5	42	25	47	
Gestational Age					0.0902
< 37 weeks	2	17	13	25	
37-41 weeks	8	67	32	60	
≥ 42 weeks	2	17	8	15	
Multiplicity					0.4325
Singleton	12	100	49	92	
Higher-order	0	0	4	8	
Parity					0.2372
First-born	5	42	19	36	
Second-born +	7	58	34	64	

Table: The demographic profile of white children who were found at schools only, by MR status

Characteristic	White Children Found at Schools Only (N=64)				P-value
	No MR		MR		
	N	%	N	%	
Age Group					0.0617
3-5 year olds	8	25	14	44	
6-10 year olds	24	75	18	56	
MMR age					0.5000
< 36 months	32	100	31	97	
≥ 36 months	0	0	1	3	
Previous DX					0.0872
No	25	78	20	63	
Yes	7	22	12	38	
Child's Sex					0.1628
Male	28	88	25	78	
Female	4	13	7	22	
Mother's Age					0.0013
< 20 years	2	6	1	3	
20-29 years	11	34	21	66	
30-34 years	12	38	7	22	
≥ 35 years	7	22	3	9	
Mother's Education					0.0050
< 11 years	3	9	4	13	
=12 years	5	16	10	31	
13-15 years	11	34	8	25	
≥ 16 years	13	41	10	31	
Birth weight					0.0988
< 1500 grams	14	44	15	47	
1500-2499 grams	1	3	1	3	
≥ 2500 grams	17	53	16	50	
Gestational Age					0.0289
< 37 weeks	3	9	5	16	
37-41 weeks	22	69	24	75	
≥ 42 weeks	7	22	3	9	
Multiplicity					0.2498
Singleton	31	97	29	91	
Higher-order	1	3	3	9	
Parity					0.1770
First-born	12	38	14	54	
Second-born +	20	63	18	56	

Table: The demographic profile of black children found at schools only, by MR status

Characteristic	Black Children Found at Schools Only (N=86)				P-value
	No MR		MR		
	N	%	N	%	
Age Group					0.2286
3-5 year olds	5	20	13	21	
6-10 year olds	20	80	48	79	
MMR age					0.3051
< 36 months	23	96	51	91	
≥ 36 months	1	4	5	9	
Previous DX					0.0604
No	16	64	28	46	
Yes	9	36	33	54	
Child's Sex					0.0904
Male	23	92	48	79	
Female	2	8	13	21	
Mother's Age					0.0038
< 20 years	3	12	4	7	
20-29 years	17	68	34	56	
30-34 years	2	8	15	25	
≥ 35 years	3	12	8	13	
Mother's Education					0.0068
< 11 years	4	16	6	10	
=12 years	12	48	36	59	
13-15 years	8	32	13	21	
≥ 16 years	1	4	6	10	
Birth weight					0.0635
< 1500 grams	7	28	14	23	
1500-2499 grams	2	8	5	8	
≥ 2500 grams	16	64	42	69	
Gestational Age					0.0215
< 37 weeks	8	32	11	18	
37-41 weeks	14	56	39	64	
≥ 42 weeks	3	12	11	18	
Multiplicity					0.3139
Singleton	23	92	55	90	
Higher-order	2	8	6	10	
Parity					0.1512
First-born	11	44	22	36	
Second-born +	14	56	39	64	

Table: The demographic profile of white children found at other sources, by MR status

Characteristic	White Children Found at Other Sources (N=147)				P-value
	No MR		MR		
	N	%	N	%	
Age Group					0.1047
3-5 year olds	33	43	26	37	
6-10 year olds	44	57	44	63	
MMR age					0.1455
< 36 months	73	97	65	93	
≥ 36 months	2	3	5	7	
Previous DX					0.1552
No	15	19	15	21	
Yes	62	81	55	79	
Child's Sex					0.1270
Male	63	82	54	77	
Female	14	18	16	23	
Mother's Age					0.0102
< 20 years	0	0	1	1	
20-29 years	35	45	30	43	
30-34 years	26	34	26	37	
≥ 35 years	16	21	13	19	
Mother's Education					0.0013
< 11 years	0	0	1	1	
=12 years	15	19	24	34	
13-15 years	22	29	15	21	
≥ 16 years	40	52	30	43	
Birth weight					0.0315
< 1500 grams	42	55	36	51	
1500-2499 grams	4	5	5	7	
≥ 2500 grams	31	40	29	41	
Gestational Age					0.0299
< 37 weeks	10	13	11	16	
37-41 weeks	56	73	51	73	
≥ 42 weeks	11	14	8	11	
Multiplicity					0.2518
Singleton	72	94	65	93	
Higher-order	5	6	5	7	
Parity					0.0018
First-born	45	58	24	34	
Second-born +	32	42	46	66	

Table: The demographic profile of black children found at other sources, by MR status

Characteristic	Black children found at other sources (N=62)				P-value
	No MR		MR		
	N	%	N	%	
Age Group					0.1097
3-5 year olds	9	56	19	39	
6-10 year olds	7	44	30	61	
MMR age					0.2118
< 36 months	16	100	41	89	
≥ 36 months	0	0	5	11	
Previous DX					0.2038
No	4	25	8	16	
Yes	12	75	41	84	
Child's Sex					0.2591
Male	12	75	37	76	
Female	4	25	12	24	
Mother's Age					0.0177
< 20 years	0	0	3	6	
20-29 years	11	69	29	59	
30-34 years	4	25	8	16	
> 35 years	1	6	9	18	
Mother's Education					0.0067
< 11 years	1	6	5	10	
=12 years	2	13	16	33	
13-15 years	8	50	17	35	
≥ 16 years	5	31	11	22	
Birth weight					0.0022
< 1500 grams	12	75	17	35	
1500-2499 grams	0	0	6	12	
≥ 2500 grams	4	25	26	53	
Gestational Age					0.0730
< 37 weeks	3	19	12	24	
37-41 weeks	11	69	29	59	
≥ 42 weeks	2	13	8	16	
Multiplicity					0.3129
Singleton	16	100	45	92	
Higher-order	0	0	4	8	
Parity					0.0454
First-born	9	56	15	31	
Second-born +	7	44	34	69	