

Table 8. Rules to Classify Case Babies as Having Multiple or Single Defects^a

Code	Defect Description	Excluded Codes
CATEGORY 1 DEFECTS:		
7400	ANENCEPHALUS	7400-7439,7540,7556,7561-7563,7581
7410	SPINA BIFIDA WITH HYDRO	7400-7439,7540,7556,7561-7563,7581
7419	SPINA BIFIDA W/OUT HYDRO	7400-7439,7540,7556,7561-7563,7581
7420	HYDROCEPHALUS	7400-7439
7430	ENCEPHALOCELE	7400-7439
7431	MICROCEPHALUS	7400-7439
7434	NEUROFIBROMATOSIS	7400-7439
7440	ANOPHTHALMOS	7440-7449
7441	MICROPHthalmOS	7440-7449
7442	BUPHTHALMOS	7440-7449
7443	CONGENITAL CATARACT	7440-7449
7444	COLOBOMA	7440-7449
7445	ANIRIDIA	7440-7449
7450	ANOM EAR-IMPAIR HEARING	7450-7453
7460	COMMON TRUNCUS	7460-7479
7461	TRANSPOS GREAT VESSELS	7460-7479
7462	TETRALOGY OF FALLOT	7460-7479
7463	VENTRICULAR SEPTAL DEFECT	7460-7479
7464	ATRIAL SEPTAL DEFECT	7460-7479
7465	OST ATRIOVENTRIC COMMUNE	7460-7479
7466	ANOMALIES OF HEART VALVES	7460-7479
7467	FIBROELASTOSIS CORDIS	7460-7479
7470	PATENT DUCTUS ARTERIOSUS	7460-7479
7471	COARCTATION OF AORTA	7460-7479
7472	OTHER ANOMALIES OF AORTA	7460-7479
7473	STEN ATRES PULMONARY ART	7460-7479
7474	ANOM GREAT VEINS	7460-7479
7480	CHOANAL ATRESIA	7480-7489
7484	CONGENITAL CYSTIC LUNG	7480-7489
7485	AGENESIS OF LUNG	7480-7489,S603
7490	CLEFT PALATE	7490-7495
7491	CLEFT LIP	7490-7495
7492	CLEFT PALATE + CLEFT LIP	7490-7495
7501	PYLORIC STENOSIS	
7502	TRACHEO-ESOPH FIST ATRES	
7511	ATRES STEN SMALL INTEST	7508,7515
7512	ATRES STEN RECT ANUS	7508-7519
7513	HIRSCHSPRUNG'S DISEASE	7508-7519
7514	ANOM INTEST FIXATION	7508-7519
7516	ANOM GALL-BLAD,BILE,LIVER	7508-7519,7580
7517	ANOM PANCREAS	7508-7519
7520	INDETERMINATE SEX	7521-7529,S613
7522	HYPOSPADIAS	7521-7529,S613
7523	EPISPADIAS	7521-7529,S613
7525	ANOM OVARY,FALLOP,UTERUS	7521-7529,S613
7526	ANOM VAGINA,EXT FEM GENIT	7521-7529,S613
7527	PSEUDOHERMAPHRODITISM	7521-7529,S613
7530	RENAL AGENESIS	7530-7539
7531	CYSTIC KIDNEY DISEASE	7530-7539
7532	OBSTRUCT DEF URIN TRACT	7530-7539
7535	EXSTROPHY URIN BLADDER	7530-7539
7536	ATRES STEN URETHRA,BLAD	7530-7539
7540	CLUBFOOT	7400-7419

Table 8. Rules to Classify Case Babies as Having Multiple or Single Defects^a — Continued

Code	Defect Description	Excluded Codes
CATEGORY 1 DEFECTS: (Continued)		
7552	REDUCT DEF UPPER LIMB	7552-7555
7553	REDUCT DEF LOWER LIMB	7552-7554,7557
7554	REDUCT DEF UNSPEC LIMB	7552,7555,7557
7558	GEN FLEXION CONTRACTURE	7552-7557,7559
7564	CHONDRODYSTROPHY	7555,7557,7560
7565	OSTEOGENESIS IMPERFECTA	
7570	HEREDITARY OEDEMA OF LEGS	
7573	SPEC ANOM HAIR	
7574	SPEC ANOM NAILS	
7580	ANOMALIES OF SPLEEN	7516
7581	ANOM ADRENAL GLAND	7400-7419
7582	ANOM THYROID GLAND	
7583	ANOM OTHER ENDOCRINE	
7590	SITUS INVERSUS	
7591	CONJOINED TWINS	always considered "single" defect
7592	OTH FORM MONSTER	always considered "single" defect
7593	DOWN'S DISEASE	always considered "single" defect
7594	OTH SYND AUTOSOMAL ABNORM	always considered "single" defect
7596	TUBEROUS SCLEROSIS	always considered "single" defect
7598	OTH SPEC SYND	always considered "single" defect
7599	MULT CONGEN ANOM UNSPEC	always considered "single" defect ^b
S603	DIAPHRAGMATIC HERNIA	7485,7486
S606	OMPHALOCELE	
S621	OTHER NEOPLASM	
S702	CYTOMEGALOVIRUS	always considered a "single" defect
S704	HERPES SIMPLEX	always considered a "single" defect
S705	SYPHILIS	always considered a "single" defect
CATEGORY 2 DEFECTS:		
7432	OTH SPEC ANOMALIES BRAIN	7400-7439
7433	OTH SPEC ANOM SPINAL CORD	7400-7439
7438	OTH ANOM OF NERVOUS SYS	7400-7439
7448	OTH SPEC ANOM OF EYE	7440-7449
7452	OTH SPEC ANOM OF EAR	7450-7453
7458	OTH SPEC ANOM FACE,NECK	
7468	OTH SPEC ANOM HEART	7460-7479
7469	UNSPEC ANOM HEART	7460-7479
7476	OTH ANOM PERIPH VASC SYS	7460-7479
7478	OTH SPEC ANOM CIRC SYS	7460-7479
7481	OTH ANOM NOSE	7480-7489
7483	OTH ANOM LARYN,TRACH,BRON	7480-7489,S603
7486	OTH ANOM LUNG	7480-7489,S603
7488	OTH SPEC ANOM RESP SYS	7480-7489,S603
7493	ANOM JAW	7490-7495
7500	ANOMALIES OF TONGUE	
7508	OTH SPEC ANOM UP ALIMENT	7508-7519
7515	OTH ANOM INTEST	7508-7519
7528	OTH SPEC ANOM GENITAL	7521-7529,S613
7533	OTH SPEC ANOM KIDNEY	7530-7539
7534	OTH SPEC ANOM URETER	7530-7539
7538	OTH SPEC ANOM BLAD URETH	7530-7539
7551	SYNDACTYLY	7560
7555	OTH ANOM UPPER LIMB	7552,7564

Table 8. Rules to Classify Case Babies as Having Multiple or Single Defects^a – Continued

Code	Defect Description	Excluded Codes
CATEGORY 2 DEFECTS: (Continued)		
7556	DISLOCATION OF HIP	7400-7419
7557	OTH ANOM LOWER LIMB	7553,7564
7559	OTH UNSPEC LIMB	7550-7558
7560	ANOM SKULL,FACE BONES	7551,7564,7593
7561	ANOM SPINE	7400-7419
7563	OTH ANOM RIBS STERNUM	7400-7419
7566	OTH GEN ANOM SKELETON	
7568	OTH SPEC ANOM MUSC, TEND	
7572	OTH SPEC ANOM SKIN	
7595	SYND SEX CHROM ABNORM	always considered "single" defect
S605	OTH DEF ABDOMINAL CAVITY	7511-7517
CATEGORY 3 DEFECTS:		
7439	UNSPEC ANOM OF CNS	7400-7439
7449	UNSPEC ANOM OF EYE	7440-7449
7451	ACCESSORY AURICLE	7450-7453
7453	UNSPEC ANOM OF EAR	7450-7453
7454	BRANCH CLEFT CYST FIST	7582
7455	WEBBING OF NECK	7595
7459	UNSPEC ANOM FACE,NECK	
7475	ABS HYPO UMBILICAL ARTERY	7460-7479
7479	UNSPEC ANOM CIRC SYS	7460-7479
7482	WEB OF LARYNX	7480-7489
7494	ANOM UVULA	7490-7495
7509	UNSPEC ANOM UP ALIMENT	7508-7519
7510	MECKEL'S DIVERTICULUM	7508-7519
7518	OTH SPEC ANOM DIGEST SYS	7508-7519
7519	UNSPEC ANOM DIGEST SYS	7508-7519
7521	UNDESCENDED TESTICLE	7521-7529,S613
7524	CONGENITAL HYDROCELE	7521-7529,S613
7529	UNSPEC ANOM GENITAL	7521-7529,S613
7539	UNSPEC ANOM URIN SYS	7531-7539
7550	POLYDACTYLY	
7562	CERVICAL RIB	7400-7419
7569	UNSPEC ANOM MUSCSKEL SYS	
7571	PIGMENTED NAEVUS	
7579	UNSPEC ANOM SKIN,HAIR,NAIL	
7588	OTH SPECIFIED CONG ANOM	
S600	INGUINAL HERNIA	
S602	UMBILICAL HERNIA	
S604	OTH UNSPEC HERNIAS	
S610	DIS AMINO ACID PROT METAB	
S611	DIS CARBOHYD METAB	
S613	DIS STEROID METAB	
S615	DIS METAB MINERALS	
S617	DIS RENAL TRANSPORT	
S618	DIS EXOCRINE GLANDS	
S619	OTH UNSPEC DIS METAB	
S620	HEMANGIOMA LYMPHANGIOMA	

^aSee text for explanation of rule implementation.

^bSee text for explanation.

Table 9. Contact and Interview Status of Parents of Study Index Babies at the Time Study Interviewing Ceased, October 24, 1983, by Case/Control Status

	Mothers		Fathers	
	Case	Control	Case	Control
A. Parent Contacted				
Interview Completed	4,929	3,029	3,977	2,426
Partial Interview Completed ^a	63	32	86	62
Respondent Refusal ^b	381	205	386	258
Language Barrier	8	4	6	3
Subtotal	5,381	3,270	4,455	2,749
B. Parent Not Contacted				
Ready for Interview	115	68	201	136
Tracing in Progress or Terminated	1,495	820	1,913	1,085
Spouse Refusal ^c	65	46	304	154
Special Refusal ^d	35	15	156	69
Deceased	42	27	104	53
Subtotal	1,752	976	2,678	1,497
Grand Total	7,133	4,246	7,133	4,246

^aInterview complete through section on military history; includes "premature termination" interviews, see Section 2.5.4 of text.

^bIncludes 97 mother and 91 father refusals after beginning interview, but none with military history completed.

^cMother instructed interviewer not to contact father, or vice versa; includes 15 mothers and 21 fathers with part 1 of interview completed (note that in these instances respondent was actually contacted).

^dAll other types of refusals where respondent not contacted; for example, grandparent of study baby refused for mentally retarded mother of baby.

Table 10. Numbers of Interviews, by Portion Completed, Case/Control Status, Race, and Parent Completing Interview^a

	Families Eligible	Parent Completing Interview			
		Mother	Father	Mother and Father	Mother or Father
A. Interview Completed Through Military History^b					
Race: White					
Case Group	5,136	3,857 (75.1)	3,449 (67.2)	3,278 (63.8)	4,028 (78.4)
Control Group	3,046	2,320 (76.2)	2,056 (67.5)	1,959 (64.3)	2,417 (79.3)
Total	8,182	6,177 (75.5)	5,505 (67.3)	5,237 (64.0)	6,445 (78.8)
Race: Other					
Case Group	1,997	1,135 (56.8)	614 (30.7)	561 (28.1)	1,188 (59.5)
Control Group	1,200	741 (61.8)	432 (36.0)	382 (31.8)	791 (65.9)
Total	3,197	1,876 (58.7)	1,046 (32.7)	943 (29.5)	1,979 (61.9)
Race: Total					
Case Group	7,133	4,992 (70.0)	4,063 (57.0)	3,839 (53.8)	5,216 (73.1)
Control Group	4,246	3,061 (72.1)	2,488 (58.6)	2,341 (55.1)	3,208 (75.6)
Total	11,379	8,053 (70.8)	6,551 (57.6)	6,180 (54.3)	8,424 (74.1)
B. Interview Fully Completed^c					
Race: White					
Case Group	5,136	3,813 (74.2)	3,384 (65.9)	3,202 (62.3)	3,995 (77.6)
Control Group	3,046	2,301 (75.5)	2,006 (65.9)	1,907 (62.6)	2,400 (78.8)
Total	8,182	6,114 (74.7)	5,390 (65.9)	5,109 (62.4)	6,395 (78.2)
Race: Other					
Case Group	1,997	1,116 (55.9)	593 (29.7)	537 (26.9)	1,172 (58.7)
Control Group	1,200	728 (60.7)	420 (35.0)	372 (31.0)	776 (64.7)
Total	3,197	1,844 (57.7)	1,013 (31.7)	909 (28.4)	1,948 (60.9)
Race: Total					
Case Group	7,133	4,929 (69.1)	3,977 (55.8)	3,739 (52.4)	5,167 (72.4)
Control Group	4,246	3,029 (71.3)	2,426 (57.1)	2,279 (53.7)	3,176 (74.8)
Total	11,379	7,958 (69.9)	6,403 (56.3)	6,018 (52.9)	8,343 (73.3)

^aFigures in parentheses are numbers of parents interviewed as percentages of numbers of parents eligible for interview.

^bNumbers of parents completing interview through military history section; includes fully complete interviews, partially complete interviews, and "premature termination" interviews (see text).

^cNumbers of parents completing full interview.

Table 11. Interview Completion for Mothers, by Availability of Fathers' Names on Study Records and Race^a

Father's Name	Interviewed	Not Interviewed	Total
Race: White			
Present	6,060 (76.8)	1,828 (23.2)	7,888 (100.0)
Absent	117 (39.8)	177 (60.2)	294 (100.0)
Total	6,177 (75.5)	2,005 (24.5)	8,182 (100.0)
Race: Other			
Present	1,296 (63.6)	743 (36.4)	2,039 (100.0)
Absent	580 (50.1)	578 (49.9)	1,158 (100.0)
Total	1,876 (58.7)	1,321 (41.3)	3,197 (100.0)

^aPartial and fully completed mothers' interviews; case and control groups combined. Figures in parentheses are percentages of row totals.

Table 12. Availability of Fathers' Names on Study Records, by Case/Control Status and Race^a

Father's Name	Case Group	Control Group	Total
Race: White			
Present	4,926 (95.9)	2,962 (97.2)	7,888 (96.4)
Absent	210 (4.1)	84 (2.8)	294 (3.6)
Total	5,136 (100.0)	3,046 (100.0)	8,182 (100.0)
Race: Other			
Present	1,188 (59.5)	851 (70.9)	2,039 (63.7)
Absent	809 (40.5)	349 (29.1)	1,158 (36.2)
Total	1,997 (100.0)	1,200 (100.0)	3,197 (100.0)

^aFigures in parentheses are percentages of column totals.

Table 13. Numbers of Fully Completed Interviews, by Case/Control Status, Race, and Parent Completing Interview^a

Case/ Control Status	Families Eligible	Parent Completing Interview		
		Mother	Father	Mother and Father
Case				
White	5,136 (72.0)	3,813 (77.4)	3,384 (85.1)	3,202 (85.6)
Other	1,997 (28.0)	1,116 (22.6)	593 (14.9)	537 (14.4)
Total	7,133 (100.0)	4,929 (100.0)	3,977 (100.0)	3,739 (100.0)
Control				
White	3,046 (71.7)	2,301 (76.0)	2,006 (82.7)	1,907 (83.7)
Other	1,200 (28.3)	728 (24.0)	420 (17.3)	372 (18.3)
Total	4,246 (100.0)	3,029 (100.0)	2,426 (100.0)	2,279 (100.0)
Total				
White	8,182 (71.9)	6,114 (76.8)	5,390 (84.2)	5,109 (84.9)
Other	3,197 (28.1)	1,844 (23.2)	1,013 (15.8)	909 (15.1)
Total	11,379 (100.0)	7,958 (100.0)	6,403 (100.0)	6,018 (100.0)

^aFigures in parentheses are percentages of totals.

Table 14. Numbers of Fully Completed Interviews, by Case/Control Status, Race, Year of Index Birth, and Parent Completing Interview^a

		Families Eligible	Parent Completing Interview		
			Mother	Father	Mother and Father
Race: White					
1968	Case Group	348	223 (64.1)	189 (54.3)	175 (50.3)
	Control Group	197	138 (70.1)	126 (64.0)	118 (59.9)
1969	Case Group	393	264 (67.2)	238 (60.6)	221 (56.2)
	Control Group	236	170 (72.0)	151 (64.0)	142 (60.2)
1970	Case Group	441	296 (67.1)	279 (63.3)	254 (57.6)
	Control Group	262	173 (66.0)	152 (58.0)	138 (52.7)
1971	Case Group	390	263 (67.4)	234 (60.0)	221 (56.7)
	Control Group	229	168 (73.4)	144 (62.9)	139 (60.7)
1972	Case Group	349	248 (71.1)	216 (61.9)	202 (57.9)
	Control Group	206	144 (69.9)	127 (61.7)	119 (57.8)
1973	Case Group	399	281 (70.4)	252 (63.2)	238 (59.6)
	Control Group	243	172 (70.8)	150 (61.7)	143 (58.8)
1974	Case Group	413	301 (72.9)	278 (67.3)	254 (61.5)
	Control Group	238	189 (79.4)	155 (65.1)	150 (63.0)
1975	Case Group	447	360 (80.5)	319 (71.4)	310 (69.4)
	Control Group	266	213 (80.1)	193 (72.6)	182 (68.4)
1976	Case Group	384	308 (80.2)	279 (72.7)	269 (70.1)
	Control Group	232	179 (77.2)	149 (64.2)	143 (61.6)
1977	Case Group	361	287 (79.5)	241 (66.8)	234 (64.8)
	Control Group	218	184 (84.4)	159 (72.9)	154 (70.6)
1978	Case Group	372	298 (80.1)	260 (69.9)	249 (66.9)
	Control Group	219	166 (75.8)	145 (66.2)	136 (62.1)
1979	Case Group	435	357 (82.1)	311 (71.5)	298 (68.5)
	Control Group	265	222 (83.8)	194 (73.2)	189 (71.3)
1980	Case Group	404	327 (80.9)	288 (71.3)	277 (68.6)
	Control Group	235	183 (77.9)	161 (68.5)	154 (65.5)
Total	Case Group	5,136	3,813 (74.2)	3,384 (65.9)	3,202 (62.3)
	Control Group	3,046	2,301 (75.5)	2,006 (65.9)	1,907 (62.6)

Table 14. Numbers of Fully Completed Interviews, by Case/Control Status, Race, Year of Index Birth, and Parent Completing Interview^a — Continued

		Parent Completing Interview			
		Families Eligible	Mother	Father	Mother and Father
Race: Other					
1968	Case Group	102	54 (52.9)	28 (27.5)	26 (25.5)
	Control Group	60	33 (55.0)	21 (35.0)	17 (28.3)
1969	Case Group	93	44 (47.3)	28 (30.1)	23 (24.7)
	Control Group	58	28 (48.3)	12 (20.7)	12 (20.7)
1970	Case Group	121	48 (39.7)	26 (21.5)	19 (15.7)
	Control Group	73	39 (53.4)	26 (35.6)	25 (34.2)
1971	Case Group	119	49 (41.2)	26 (21.8)	21 (17.6)
	Control Group	73	42 (57.5)	20 (27.4)	18 (24.7)
1972	Case Group	101	50 (49.5)	23 (22.8)	21 (20.8)
	Control Group	63	38 (60.3)	20 (31.7)	15 (23.8)
1973	Case Group	135	66 (48.9)	39 (28.9)	34 (25.2)
	Control Group	80	41 (51.3)	25 (31.3)	24 (30.0)
1974	Case Group	138	84 (60.9)	48 (34.8)	45 (32.6)
	Control Group	81	59 (72.8)	29 (35.8)	25 (30.9)
1975	Case Group	167	95 (56.9)	50 (29.9)	46 (27.5)
	Control Group	98	64 (65.3)	36 (36.7)	29 (29.6)
1976	Case Group	170	105 (61.8)	58 (34.1)	51 (30.0)
	Control Group	104	63 (60.6)	35 (33.7)	28 (26.9)
1977	Case Group	182	103 (56.6)	51 (28.0)	48 (26.4)
	Control Group	112	79 (70.5)	44 (39.3)	39 (34.8)
1978	Case Group	197	123 (62.4)	61 (31.0)	56 (28.4)
	Control Group	117	70 (59.8)	46 (39.3)	43 (36.8)
1979	Case Group	229	145 (63.3)	72 (31.4)	68 (29.7)
	Control Group	136	81 (59.6)	49 (36.0)	43 (31.6)
1980	Case Group	243	150 (61.7)	83 (34.2)	79 (32.5)
	Control Group	145	91 (62.8)	57 (39.3)	54 (37.2)
Total	Case Group	1,997	1,116 (55.9)	593 (29.7)	537 (26.9)
	Control Group	1,200	728 (60.7)	420 (35.0)	372 (31.0)

^aFigures in parentheses are numbers of parents completing interviews as percentages of numbers eligible.

Table 15. Numbers of Mothers Eligible for Interview and Numbers of Fully Completed Interviews, by Case/Control Status, Race, and Year of Index Birth ^a

	Case Group				Control Group			
	Eligible		Interview Completed		Eligible		Interview Completed	
Race: White								
1968	348	(6.8)	223	(5.8)	197	(6.5)	138	(6.0)
1969	393	(7.7)	264	(6.9)	236	(7.7)	170	(7.4)
1970	441	(8.6)	296	(7.8)	262	(8.6)	173	(7.5)
1971	390	(7.6)	263	(6.9)	229	(7.5)	168	(7.3)
1972	349	(6.8)	248	(6.5)	206	(6.8)	144	(6.3)
1973	399	(7.8)	281	(7.4)	243	(8.0)	172	(7.5)
1974	412	(8.0)	301	(7.9)	238	(7.8)	189	(8.2)
1975	448	(8.7)	360	(9.4)	266	(8.7)	213	(9.3)
1976	384	(7.5)	308	(8.1)	232	(7.6)	179	(7.8)
1977	361	(7.0)	287	(7.5)	218	(7.2)	184	(8.0)
1978	372	(7.2)	298	(7.8)	219	(7.2)	166	(7.2)
1979	435	(8.5)	357	(9.4)	265	(8.7)	222	(9.6)
1980	404	(7.9)	327	(8.6)	235	(7.7)	183	(3.0)
Total	5,136	(100.0)	3,813	(100.0)	3,046	(100.0)	2,301	(100.0)
Race: Other								
1968	102	(5.1)	54	(4.8)	60	(5.0)	33	(1.5)
1969	93	(4.7)	44	(3.9)	58	(4.8)	28	(3.8)
1970	121	(6.1)	48	(4.3)	73	(6.1)	39	(5.4)
1971	119	(6.0)	49	(4.4)	73	(6.1)	42	(5.8)
1972	100	(5.0)	50	(4.5)	63	(5.3)	38	(5.2)
1973	136	(6.8)	66	(5.9)	80	(6.7)	41	(5.6)
1974	138	(6.9)	84	(7.5)	81	(6.8)	59	(8.1)
1975	167	(8.4)	95	(8.5)	98	(8.2)	64	(8.8)
1976	170	(8.5)	105	(9.4)	104	(8.7)	63	(8.7)
1977	182	(9.1)	103	(9.2)	112	(9.3)	79	(10.9)
1978	197	(9.9)	123	(11.0)	117	(9.8)	70	(9.6)
1979	229	(11.5)	145	(13.0)	136	(11.3)	81	(11.1)
1980	243	(12.2)	150	(13.4)	145	(12.1)	91	(12.5)
Total	1,997	(100.0)	1,116	(100.0)	1,200	(100.0)	728	(100.0)

^aFigures in parentheses are percentages of totals.

Table 16. Numbers of Fully Completed Interviews, by Case/Control Status, Race, Hospital of Index Birth, and Parent Completing Interview^a

Hospital Code		Families Eligible	Parent Completing Interview		
			Mother	Father	Mother and Father
Race: White					
1	Case Group	21	16 (76.2)	15 (71.4)	14 (66.7)
	Control Group	12	7 (58.3)	5 (41.7)	4 (33.3)
2	Case Group	56	41 (73.2)	39 (69.6)	36 (64.3)
	Control Group	32	18 (56.3)	18 (56.3)	15 (46.9)
3	Case Group	270	217 (80.4)	187 (69.3)	180 (66.7)
	Control Group	161	108 (67.1)	95 (59.0)	86 (53.4)
4	Case Group	289	194 (67.1)	170 (58.8)	154 (53.3)
	Control Group	175	128 (73.1)	114 (65.1)	105 (60.0)
5	Case Group	270	202 (74.8)	171 (63.3)	165 (61.1)
	Control Group	154	117 (76.0)	105 (68.2)	99 (64.3)
6	Case Group	733	579 (79.0)	539 (73.5)	507 (69.2)
	Control Group	435	361 (83.0)	331 (76.1)	323 (74.3)
7	Case Group	172	114 (66.3)	83 (48.3)	76 (44.2)
	Control Group	104	74 (71.2)	46 (44.2)	43 (41.3)
9	Case Group	119	101 (84.9)	91 (76.5)	90 (75.6)
	Control Group	69	58 (84.1)	52 (75.4)	51 (73.9)
10	Case Group	523	377 (72.1)	344 (65.8)	324 (62.0)
	Control Group	315	241 (76.5)	220 (69.8)	211 (67.0)
11	Case Group	394	135 (34.3)	91 (23.1)	71 (18.0)
	Control Group	228	83 (36.4)	45 (19.7)	37 (16.2)
12	Case Group	5	5 (100.)	5 (100.)	5 (100.)
	Control Group	3	3 (100.)	2 (66.7)	2 (66.7)
13	Case Group	0	0 (0.0)	0 (0.0)	0 (0.0)
	Control Group	0	0 (0.0)	0 (0.0)	0 (0.0)
14	Case Group	86	64 (74.4)	48 (55.8)	45 (52.3)
	Control Group	49	27 (55.1)	15 (30.6)	14 (28.6)
15	Case Group	427	299 (70.0)	253 (59.3)	238 (55.7)
	Control Group	260	198 (76.2)	176 (67.7)	165 (63.5)
16	Case Group	803	688 (85.7)	661 (82.3)	639 (79.6)
	Control Group	485	427 (88.0)	385 (79.4)	375 (77.3)
17	Case Group	390	330 (84.6)	284 (72.8)	272 (69.7)
	Control Group	227	189 (83.3)	174 (76.7)	168 (74.0)
18	Case Group	18	11 (61.1)	9 (50.0)	9 (50.0)
	Control Group	12	5 (41.7)	4 (33.3)	3 (25.0)
20	Case Group	480	384 (80.0)	340 (70.8)	327 (68.1)
	Control Group	284	228 (80.3)	191 (67.3)	182 (64.1)
21	Case Group	61	42 (68.9)	40 (65.6)	38 (62.3)
	Control Group	31	24 (77.4)	23 (74.2)	19 (61.3)
22	Case Group	19	14 (73.7)	14 (73.7)	12 (63.2)
	Control Group	10	5 (50.0)	5 (50.0)	5 (50.0)
Total	Case Group	5,136	3,813 (74.2)	3,384 (65.9)	3,202 (62.3)
	Control Group	3,046	2,301 (75.5)	2,006 (65.9)	1,907 (62.6)

Table 16. Numbers of Fully Completed Interviews, by Case/Control Status, Race, Hospital of Index Birth, and Parent Completing Interview^a — Continued

Hospital Code		Families Eligible	Parent Completing Interview		
			Mother	Father	Mother and Father
Race: Other					
1	Case Group	1	0 (0.0)	0 (0.0)	0 (0.0)
	Control Group	1	1 (100.)	0 (0.0)	0 (0.0)
2	Case Group	3	1 (33.3)	0 (0.0)	0 (0.0)
	Control Group	3	2 (66.7)	1 (33.3)	1 (33.3)
3	Case Group	23	15 (65.2)	6 (26.1)	6 (26.1)
	Control Group	14	10 (71.4)	6 (42.9)	5 (35.7)
4	Case Group	10	9 (90.0)	4 (40.0)	4 (40.0)
	Control Group	8	5 (62.5)	2 (25.0)	2 (25.0)
5	Case Group	147	102 (69.4)	77 (52.4)	69 (46.9)
	Control Group	82	62 (75.6)	47 (57.3)	43 (52.4)
6	Case Group	104	70 (67.3)	62 (59.6)	56 (53.8)
	Control Group	60	46 (76.7)	32 (53.3)	31 (51.7)
7	Case Group	29	17 (58.6)	11 (37.9)	11 (37.9)
	Control Group	14	11 (78.6)	9 (64.3)	9 (64.3)
9	Case Group	1	1 (100.)	1 (100.)	1 (100.)
	Control Group	1	1 (100.)	1 (100.)	1 (100.)
10	Case Group	87	56 (64.4)	48 (55.2)	45 (51.7)
	Control Group	52	43 (82.7)	29 (55.8)	29 (55.8)
11	Case Group	1,267	632 (49.9)	238 (18.8)	215 (17.0)
	Control Group	759	414 (54.5)	188 (24.8)	158 (20.3)
12	Case Group	0	0 (0.0)	0 (0.0)	0 (0.0)
	Control Group	0	0 (0.0)	0 (0.0)	0 (0.0)
13	Case Group	43	23 (53.5)	15 (34.9)	14 (32.3)
	Control Group	28	14 (50.0)	9 (32.1)	9 (32.1)
14	Case Group	3	3 (100.)	1 (33.3)	1 (33.3)
	Control Group	3	1 (33.3)	1 (33.3)	1 (33.3)
15	Case Group	28	14 (50.0)	8 (28.6)	7 (25.0)
	Control Group	19	10 (52.6)	3 (15.8)	1 (5.3)
16	Case Group	38	27 (71.1)	22 (57.9)	20 (52.6)
	Control Group	23	16 (69.6)	10 (43.5)	10 (43.5)
17	Case Group	19	15 (78.9)	12 (63.2)	12 (63.2)
	Control Group	13	8 (61.5)	8 (61.5)	8 (61.5)
18	Case Group	115	75 (65.2)	50 (43.5)	42 (36.5)
	Control Group	72	52 (72.2)	46 (63.9)	38 (52.8)
20	Case Group	50	35 (70.0)	22 (44.0)	20 (40.0)
	Control Group	30	20 (66.7)	17 (56.7)	16 (53.3)
21	Case Group	16	11 (68.8)	10 (62.5)	10 (62.5)
	Control Group	9	7 (77.8)	7 (77.8)	6 (66.7)
22	Case Group	13	10 (76.9)	6 (46.2)	4 (30.8)
	Control Group	9	5 (55.6)	4 (44.4)	4 (44.4)
Total	Case Group	1,997	1,116 (55.9)	593 (29.7)	537 (26.8)
	Control Group	1,200	728 (60.8)	420 (35.0)	372 (31.0)

^aFigures in parentheses are numbers of interviews completed as percentages of numbers eligible.

Table 17. Numbers of Mothers Eligible for Interview and Numbers of Fully Completed Mother's Interviews, by Case/Control Status, Race, and Hospital of Index Birth^a

Hospital Code	Case Group		Control Group	
	Eligible	Completed	Eligible	Completed
Race: White				
1	21 (0.4)	16 (0.4)	12 (0.4)	7 (0.3)
2	56 (1.1)	41 (1.1)	32 (1.0)	18 (0.8)
3	270 (5.3)	217 (5.7)	161 (5.3)	108 (4.7)
4	289 (5.6)	194 (5.1)	175 (5.8)	128 (5.6)
5	270 (5.3)	202 (5.3)	154 (5.0)	117 (5.1)
6	733 (14.3)	579 (15.2)	435 (14.3)	361 (15.7)
7	172 (3.4)	114 (3.0)	104 (3.4)	74 (3.2)
9	119 (2.3)	101 (2.6)	69 (2.3)	58 (2.5)
10	523 (10.2)	377 (9.9)	315 (10.3)	241 (10.5)
11	394 (7.7)	135 (3.5)	228 (7.5)	83 (3.6)
12	5 (0.1)	5 (0.1)	3 (0.1)	3 (0.1)
13	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
14	86 (1.7)	64 (1.7)	49 (1.6)	27 (1.2)
15	427 (8.3)	299 (7.8)	260 (8.5)	198 (8.6)
16	803 (15.6)	688 (18.0)	485 (15.9)	427 (18.6)
17	390 (7.6)	330 (8.7)	227 (7.4)	189 (8.2)
18	18 (0.4)	11 (0.3)	12 (0.4)	5 (0.2)
20	480 (9.3)	384 (10.1)	284 (9.3)	228 (9.9)
21	61 (1.2)	42 (1.1)	31 (1.0)	24 (1.0)
22	19 (0.4)	14 (0.4)	10 (0.3)	5 (0.2)
Total	5,136 (100.0)	3,813 (100.0)	3,046 (100.0)	2,301 (100.0)
Race: Other				
1	1 (0.1)	0 (0.0)	1 (0.1)	1 (0.1)
2	3 (0.2)	1 (0.1)	3 (0.2)	2 (0.3)
3	23 (1.2)	15 (1.3)	14 (1.2)	10 (1.4)
4	10 (0.5)	9 (0.8)	8 (0.7)	5 (0.7)
5	147 (7.4)	102 (9.1)	82 (6.8)	62 (8.5)
6	104 (5.2)	70 (6.3)	60 (5.0)	46 (6.3)
7	29 (1.5)	17 (1.5)	14 (1.2)	11 (1.5)
9	1 (0.1)	1 (0.1)	1 (0.1)	1 (0.1)
10	87 (4.4)	56 (5.0)	52 (4.3)	43 (5.9)
11	1,267 (63.4)	632 (56.6)	759 (63.3)	414 (56.9)
12	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
13	43 (2.2)	23 (2.1)	28 (2.3)	14 (1.9)
14	3 (0.2)	3 (0.3)	3 (0.2)	1 (0.1)
15	28 (1.4)	14 (1.3)	19 (1.6)	10 (1.4)
16	38 (1.9)	27 (2.4)	23 (1.9)	16 (2.2)
17	19 (1.0)	15 (1.3)	13 (1.1)	8 (1.1)
18	115 (5.8)	75 (6.7)	72 (6.0)	52 (7.1)
20	50 (2.5)	35 (3.1)	30 (2.5)	20 (2.7)
21	16 (0.8)	11 (1.0)	9 (0.7)	7 (1.0)
22	13 (0.7)	10 (0.9)	9 (0.7)	5 (0.7)
Total	1,997 (100.0)	1,116 (100.0)	1,200 (100.0)	728 (100.0)

^aFigures in parentheses are percentages of totals.

Table 18. Numbers of Fully Completed Interviews, by Category of Defect, Type of Defect, and Parent Completing Interview^a

Code	Type of Defect Defect Description	Parent Completing Interview			
		Families Eligible	Mother	Father	Mother and Father
CATEGORY 1 DEFECTS:^b					
7400	ANENCEPHALUS	226	145 (64.2)	122 (54.0)	114 (50.4)
7410	SPINA BIFIDA WITH HYDRO	174	122 (70.1)	99 (56.9)	97 (55.7)
7419	SPINA BIFIDA W/OUT HYDRO	123	84 (68.3)	78 (63.4)	68 (55.3)
7420	HYDROCEPHALUS	334	216 (64.7)	148 (44.3)	138 (41.3)
7430	ENCEPHALOCELE	62	41 (66.1)	31 (50.0)	27 (43.5)
7431	MICROCEPHALUS	135	89 (65.9)	60 (44.4)	58 (43.0)
7434	NEUROFIBROMATOSIS	7	6 (85.7)	5 (71.4)	4 (57.1)
7440	ANOPHTHALMOS	25	16 (64.0)	15 (60.0)	13 (52.0)
7441	MICROPHTHALMOS	79	45 (57.0)	31 (39.2)	28 (35.4)
7442	BUPHTHALMOS	12	8 (66.7)	6 (50.0)	6 (50.0)
7443	CONGENITAL CATARACT	66	44 (66.7)	31 (47.0)	31 (47.0)
7444	COLOBOMA	25	16 (64.0)	14 (56.0)	12 (48.0)
7445	ANIRIDIA	6	3 (50.0)	3 (50.0)	2 (33.3)
7450	ANOM EAR-IMPAIR HEARING	47	30 (63.8)	25 (53.2)	21 (44.7)
7460	COMMON TRUNCUS	30	24 (80.0)	17 (56.7)	17 (56.7)
7461	TRANSPOS GREAT VESSELS	123	94 (76.4)	75 (61.0)	73 (59.3)
7462	TETRALOGY OF FALLOT	87	60 (69.0)	48 (55.2)	43 (49.4)
7463	VENTRICULAR SEPTAL DEFECT	615	413 (67.2)	316 (51.4)	299 (48.6)
7464	ATRIAL SEPTAL DEFECT	263	179 (68.1)	143 (54.4)	134 (51.0)
7465	OST ATRIOVENTRIC COMMUNE	60	38 (63.3)	32 (53.3)	28 (46.7)
7466	ANOMALIES OF HEART VALVES	222	163 (73.4)	136 (61.3)	130 (58.6)
7467	FIBROELASTOSIS CORDIS	13	6 (46.2)	8 (61.5)	6 (46.2)
7470	PATENT DUCTUS ARTERIOSUS	580	392 (67.6)	293 (50.5)	271 (46.7)
7471	COARCTATION OF AORTA	109	76 (69.7)	58 (53.2)	57 (52.3)
7472	OTHER ANOMALIES OF AORTA	98	63 (64.3)	52 (53.1)	50 (51.0)
7473	STEN ATRES PULMONARY ART	125	88 (70.4)	60 (48.0)	57 (45.6)
7474	ANOM GREAT VEINS	57	39 (68.4)	34 (59.6)	32 (56.1)
7480	CHOANAL ATRESIA	34	25 (73.5)	23 (67.6)	22 (64.7)
7484	CONGENITAL CYSTIC LUNG	8	5 (62.5)	3 (37.5)	3 (37.5)
7485	AGENESIS OF LUNG	12	7 (58.3)	7 (58.3)	7 (58.3)
7490	CLEFT PALATE	195	120 (61.5)	104 (53.3)	94 (48.2)
7491	CLEFT LIP	113	84 (74.3)	77 (68.1)	72 (63.7)
7492	CLEFT PALATE + CLEFT LIP	223	148 (66.4)	127 (57.0)	119 (53.4)
7501	PYLORIC STENOSIS	432	322 (74.5)	294 (68.1)	274 (63.4)
7502	TRACHEO-ESOPH FIST ATRES	72	52 (72.2)	45 (62.5)	43 (59.7)
7511	ATRES STEN SMALL INTEST	98	75 (76.5)	61 (62.2)	58 (59.2)
7512	ATRES STEN RECT ANUS	134	90 (67.2)	73 (54.5)	69 (51.5)
7513	HIRSCHSPRUNG'S DISEASE	51	40 (78.4)	35 (68.6)	34 (66.7)
7514	ANOM INTEST FIXATION	68	44 (64.7)	38 (55.9)	35 (51.5)
7516	ANOM GALL-BLAD,BILE,LIVER	113	69 (61.1)	53 (46.9)	49 (43.4)
7517	ANOM PANCREAS	10	8 (80.0)	8 (80.0)	8 (80.0)
7520	INDETERMINATE SEX	6	5 (83.3)	5 (83.3)	5 (83.3)
7522	HYPOSPADIAS	816	589 (72.2)	477 (58.5)	453 (55.5)
7523	EPISPADIAS	27	17 (63.0)	11 (40.7)	11 (40.7)
7525	ANOM OVARY,FALLOP,UTERUS	31	16 (51.6)	16 (51.6)	16 (51.6)
7526	ANOM VAGINA,EXT FEM GENIT	71	38 (53.5)	32 (45.1)	29 (40.8)
7527	PSEUDOHERMAPHRODITISM	41	28 (68.3)	22 (53.7)	20 (48.8)
7530	RENAL AGENESIS	85	59 (69.4)	47 (55.3)	43 (50.6)
7531	CYSTIC KIDNEY DISEASE	79	50 (63.3)	38 (48.1)	38 (48.1)

Table 18. Numbers of Fully Completed Interviews, by Category of Defect, Type of Defect, and Parent Completing Interview^a — Continued

Type of Defect		Parent Completing Interview			
		Families Eligible	Mother	Father	Mother and Father
Code	Defect Description				
CATEGORY 1 DEFECTS (Continued):^b					
7532	OBSTRUCT DEF URIN TRACT	139	89 (64.0)	71 (51.1)	66 (47.5)
7535	EXSTROPHY URIN BLADDER	15	9 (60.0)	9 (60.0)	8 (53.3)
7536	ATRES STEN URETHRA,BLAD	77	51 (66.2)	42 (54.5)	39 (50.6)
7540	CLUBFOOT	1,230	875 (71.1)	704 (57.2)	671 (54.6)
7552	REDUCT DEF UPPER LIMB	179	115 (64.2)	91 (50.8)	85 (47.5)
7553	REDUCT DEF LOWER LIMB	66	45 (68.2)	35 (53.0)	34 (51.5)
7554	REDUCT DEF UNSPEC LIMB	1	1 (100.0)	1 (100.0)	1 (100.0)
7558	GEN FLEXION CONTRACTURE	42	27 (64.3)	18 (42.9)	18 (42.9)
7564	CHONDRODYSTROPHY	24	14 (58.3)	9 (37.5)	9 (37.5)
7565	OSTEOGENESIS IMPERFECTA	12	7 (58.3)	7 (58.3)	6 (50.0)
7570	HEREDITARY OEDEMA OF LEGS	4	3 (75.0)	2 (50.0)	2 (50.0)
7573	SPEC ANOM HAIR	18	13 (72.2)	8 (44.4)	8 (44.4)
7574	SPEC ANOM NAILS	37	17 (45.9)	9 (24.3)	7 (18.9)
7580	ANOMALIES OF SPLEEN	62	43 (69.4)	30 (48.4)	29 (46.8)
7581	ANOM ADRENAL GLAND	10	6 (60.0)	6 (60.0)	6 (60.0)
7582	ANOM THYROID GLAND	32	25 (78.1)	20 (62.5)	20 (62.5)
7583	ANOM OTHER ENDOCRINE	21	14 (66.7)	8 (38.1)	8 (38.1)
7590	SITUS INVERSUS	21	14 (66.7)	10 (47.6)	9 (42.9)
7591	CONJOINED TWINS	8	5 (62.5)	6 (75.0)	5 (62.5)
7592	OTH FORM MONSTER	6	5 (83.3)	3 (50.0)	3 (50.0)
7593	DOWN'S DISEASE	309	219 (70.9)	179 (57.9)	168 (54.4)
7594	OTH SYND AUTOSOMAL ABNORM	66	47 (71.2)	38 (57.6)	35 (53.0)
7596	TUBEROUS SCLEROSIS	2	1 (50.0)	1 (50.0)	1 (50.0)
7598	OTH SPEC SYND	147	84 (57.1)	53 (36.1)	50 (34.0)
7599	MULT CONGEN ANOM UNSPEC	6	3 (50.0)	3 (50.0)	3 (50.0)
S603	DIAPHRAGMATIC HERNIA	99	76 (76.8)	59 (59.6)	55 (55.6)
S606	OMPHALOCELE	155	112 (72.3)	89 (57.4)	84 (54.2)
S621	OTHER NEOPLASM	118	91 (77.1)	84 (71.2)	77 (65.3)
S702	CYTOMEGALOVIRUS	17	10 (58.8)	6 (35.3)	6 (35.3)
S704	HERPES SIMPLEX	12	11 (91.7)	6 (50.0)	6 (50.0)
S705	SYPHILIS	31	8 (25.8)	4 (12.9)	2 (6.5)
CATEGORY 2 DEFECTS:^b					
7432	OTH SPEC ANOMALIES BRAIN	68	49 (72.1)	40 (58.8)	37 (54.4)
7433	OTH SPEC ANOM SPINAL CORD	7	6 (85.7)	4 (57.1)	4 (57.1)
7438	OTH ANOM OF NERVOUS SYS	5	4 (80.0)	3 (60.0)	3 (60.0)
7448	OTH SPEC ANOM OF EYE	126	91 (72.2)	67 (53.2)	64 (50.8)
7452	OTH SPEC ANOM OF EAR	299	187 (62.5)	138 (46.2)	128 (42.8)
7458	OTH SPEC ANOM FACE,NECK	39	19 (48.7)	15 (38.5)	14 (35.9)
7468	OTH SPEC ANOM HEART	299	215 (71.9)	165 (55.2)	159 (53.2)
7469	UNSPEC ANOM HEART	138	81 (58.7)	66 (47.8)	64 (46.4)
7476	OTH ANOM PERIPH VASC SYS	51	33 (64.7)	27 (52.9)	25 (49.0)
7478	OTH SPEC ANOM CIRC SYS	6	4 (66.7)	4 (66.7)	4 (66.7)
7481	OTH ANOM NOSE	48	27 (56.3)	23 (47.9)	20 (41.7)
7483	OTH ANOM LARYN, TRACH,BRON	22	15 (68.2)	13 (59.1)	12 (54.5)
7486	OTH ANOM LUNG	92	55 (59.8)	33 (35.9)	32 (34.8)
7488	OTH SPEC ANOM RESP SYS	2	2 (100.0)	0 (0.0)	0 (0.0)
7493	ANOM JAW	170	108 (63.5)	82 (48.2)	76 (44.7)
7500	ANOMALIES OF TONGUE	34	26 (76.5)	19 (55.9)	17 (50.0)

Table 18. Numbers of Fully Completed Interviews, by Category of Defect, Type of Defect, and Parent Completing Interview^a — Continued

Code	Type of Defect Defect Description	Parent Completing Interview			
		Families Eligible	Mother	Father	Mother and Father
CATEGORY 2 DEFECTS (Continued):^b					
7508	OTH SPEC ANOM UP ALIMENT	71	51 (71.8)	41 (57.7)	38 (53.5)
7515	OTH ANOM INTEST	41	29 (70.7)	24 (58.5)	23 (56.1)
7528	OTH SPEC ANOM GENITAL	105	78 (74.3)	60 (57.1)	59 (56.2)
7533	OTH SPEC ANOM KIDNEY	47	26 (55.3)	27 (57.4)	21 (44.7)
7534	OTH SPEC ANOM URETER	29	23 (79.3)	22 (75.9)	21 (72.4)
7538	OTH SPEC ANOM BLAD URETH	39	27 (69.2)	25 (64.1)	25 (64.1)
7551	SYNDACTYLY	103	67 (65.0)	45 (43.7)	44 (42.7)
7555	OTH ANOM UPPER LIMB	204	134 (65.7)	97 (47.5)	94 (46.1)
7556	DISLOCATION OF HIP	99	67 (67.7)	56 (56.6)	53 (53.5)
7557	OTH ANOM LOWER LIMB	186	123 (66.1)	89 (47.8)	81 (43.5)
7559	OTH UNSPEC LIMB	8	6 (75.0)	5 (62.5)	5 (62.5)
7560	ANOM SKULL,FACE BONES	185	127 (68.6)	105 (56.8)	99 (53.5)
7561	ANOM SPINE	108	69 (63.9)	57 (52.8)	51 (47.2)
7563	OTH ANOM RIBS STERNUM	67	44 (65.7)	35 (52.2)	29 (43.3)
7566	OTH GEN ANOM SKELETON	6	2 (33.3)	2 (33.3)	2 (33.3)
7568	OTH SPEC ANOM MUSC,TEND	49	34 (69.4)	22 (44.9)	20 (40.8)
7572	OTH SPEC ANOM SKIN	120	79 (65.8)	58 (48.3)	54 (45.0)
7595	SYND SEX CHROM ABNORM	25	14 (56.0)	16 (64.0)	13 (52.0)
S605	OTH DEF ABDOMINAL CAVITY	1	1 (100.0)	1 (100.0)	1 (100.0)
CATEGORY 3 DEFECTS:^b					
7439	UNSPEC ANOM OF CNS	4	3 (75.0)	3 (75.0)	2 (50.0)
7449	UNSPEC ANOM OF EYE	5	5 (100.0)	5 (100.0)	5 (100.0)
7451	ACCESSORY AURICLE	58	41 (70.7)	33 (56.9)	32 (55.2)
7453	UNSPEC ANOM OF EAR	18	12 (66.7)	7 (38.9)	7 (38.9)
7454	BRANCH CLEFT CYST FIST	17	10 (58.8)	10 (58.8)	8 (47.1)
7455	WEBBING OF NECK	38	23 (60.5)	21 (55.3)	19 (50.0)
7459	UNSPEC ANOM FACE,NECK	7	3 (42.9)	1 (14.3)	1 (14.3)
7475	ABS HYPO UMBILICAL ARTERY	59	37 (62.7)	30 (50.8)	29 (49.2)
7479	UNSPEC ANOM CIRC SYS	1	1 (100.0)	1 (100.0)	1 (100.0)
7482	WEB OF LARYNX	1	1 (100.0)	1 (100.0)	1 (100.0)
7494	ANOM UVULA	6	4 (66.7)	2 (33.3)	2 (33.3)
7509	UNSPEC ANOM UP ALIMENT	1	1 (100.0)	1 (100.0)	1 (100.0)
7510	MECKEL'S DIVERTICULUM	15	13 (86.7)	10 (66.7)	9 (60.0)
7518	OTH SPEC ANOM DIGEST SYS	3	2 (66.7)	1 (33.3)	1 (33.3)
7521	UNDESCENDED TESTICLE	171	120 (70.2)	99 (57.9)	92 (53.8)
7524	CONGENITAL HYDROCELE	88	58 (65.9)	51 (58.0)	48 (54.5)
7529	UNSPEC ANOM GENITAL	6	5 (83.3)	5 (83.3)	5 (83.3)
7539	UNSPEC ANOM URIN SYS	3	3 (100.0)	2 (66.7)	2 (66.7)
7550	POLYDACTYLY	120	86 (71.7)	58 (48.3)	55 (45.8)
7562	CERVICAL RIB	2	2 (100.0)	1 (50.0)	1 (50.0)
7569	UNSPEC ANOM MUSCSKEL SYS	1	0 (0.0)	0 (0.0)	0 (0.0)
7571	PIGMENTED NAEVUS	11	8 (72.7)	5 (45.5)	4 (36.4)
7579	UNSPEC ANOM SKIN,HAIR,NAIL	2	1 (50.0)	1 (50.0)	1 (50.0)
7588	OTH SPECIFIED CONG ANOM	2	0 (0.0)	0 (0.0)	0 (0.0)
S600	INGUINAL HERNIA	135	92 (68.1)	75 (55.6)	70 (51.9)
S602	UMBILICAL HERNIA	73	47 (64.4)	27 (37.0)	26 (35.6)
S604	OTH UNSPEC HERNIAS	10	8 (80.0)	6 (60.0)	6 (60.0)
S610	DIS AMINO ACID PROT METAB	5	2 (40.0)	0 (0.0)	0 (0.0)

Table 18. Numbers of Fully Completed Interviews, by Category of Defect, Type of Defect, and Parent Completing Interview^a — Continued

Type of Defect		Parent Completing Interview			
Code	Defect Description	Families Eligible	Mother	Father	Mother and Father
CATEGORY 3 DEFECTS (Continued):^b					
S611	DIS CARBOHYD METAB	4	3 (75.0)	2 (50.0)	2 (50.0)
S613	DIS STEROID METAB	6	5 (83.3)	5 (83.3)	4 (66.7)
S615	DIS METAB MINERALS	1	1 (100.0)	1 (100.0)	1 (100.0)
S617	DIS RENAL TRANSPORT	1	1 (100.0)	1 (100.0)	1 (100.0)
S618	DIS EXOCRINE GLANDS	6	6 (100.0)	6 (100.0)	6 (100.0)
S619	OTH UNSPEC DIS METAB	3	2 (66.7)	0 (0.0)	0 (0.0)
S620	HEMANGIOMA LYMPHANGIOMA	68	47 (69.1)	43 (63.2)	40 (58.8)
S700	UNSPEC TORCH INFECT	7	5 (71.4)	4 (57.1)	4 (57.1)

^aFigures in parentheses are numbers completed as percentages of numbers eligible.

^bSee text for definition of defect categories.

Table 19. Numbers of Mothers Eligible for Interview and Numbers of Fully Completed Interviews, by Category of Defect, Type of Defect, and Race^a

Type of Defect		White		Other	
Code	Defect Description	Eligible	Completed	Eligible	Completed
CATEGORY 1 DEFECTS:^b					
7400	ANENCEPHALUS	188	124 (66.0)	38	21 (5.3)
7410	SPINA BIFIDA WITH HYDRO	153	112 (73.2)	21	10 (4.6)
7419	SPINA BIFIDA W/OUT HYDRO	96	66 (68.8)	27	18 (6.7)
7420	HYDROCEPHALUS	206	139 (67.5)	128	77 (6.0)
7430	ENCEPHALOCELE	45	31 (68.9)	17	10 (5.8)
7431	MICROCEPHALUS	63	49 (77.8)	72	40 (5.6)
7434	NEUROFIBROMATOSIS	4	3 (75.0)	3	3 (10.0)
7440	ANOPHTHALMOS	19	15 (78.9)	6	1 (6.7)
7441	MICROPTHALMOS	44	29 (65.9)	35	16 (4.5)
7442	BUPHTHALMOS	4	4 (100.0)	8	4 (5.0)
7443	CONGENITAL CATARACT	35	26 (74.3)	31	18 (5.8)
7444	COLOBOMA	22	15 (68.2)	3	1 (3.3)
7445	ANIRIDIA	6	3 (50.0)	0	0 (0.0)
7450	ANOM EAR-IMPAIR HEARING	33	24 (72.7)	14	6 (4.2)
7460	COMMON TRUNCUS	24	20 (83.3)	6	4 (6.7)
7461	TRANSPOS GREAT VESSELS	93	75 (80.6)	30	19 (6.3)
7462	TETRALOGY OF FALLOT	62	45 (72.6)	25	15 (6.0)
7463	VENTRICULAR SEPTAL DEFECT	371	276 (74.4)	244	137 (5.6)
7464	ATRIAL SEPTAL DEFECT	166	120 (72.3)	97	59 (6.0)
7465	ST ATRIOVENTRIC COMMUNE	33	26 (78.8)	27	12 (4.4)
7466	ANOMALIES OF HEART VALVES	159	127 (79.9)	63	36 (5.7)
7467	FIBROELASTOSIS CORDIS	10	4 (40.0)	3	2 (6.7)
7470	PATENT DUCTUS ARTERIOSUS	342	263 (76.9)	238	129 (5.4)
7471	COARCTATION OF AORTA	82	62 (75.6)	27	14 (5.1)
7472	OTHER ANOMALIES OF AORTA	67	47 (70.1)	31	16 (5.1)
7473	STEN ATRES PULMONARY ART	71	58 (81.7)	54	30 (5.5)
7474	ANOM GREAT VEINS	42	31 (73.8)	15	8 (5.3)
7480	CHOANAL ATRESIA	23	20 (87.0)	11	5 (4.5)
7484	CONGENITAL CYSTIC LUNG	5	4 (80.0)	3	1 (3.3)
7485	AGENESIS OF LUNG	10	7 (70.0)	2	0 (0.0)
7490	CLEFT PALATE	136	91 (66.9)	59	29 (4.9)
7491	CLEFT LIP	90	73 (81.1)	23	11 (4.7)
7492	CLEFT PALATE + CLEFT LIP	179	128 (71.5)	44	20 (4.5)
7501	PYLORIC STENOSIS	394	301 (76.4)	38	21 (5.3)
7502	TRACHEO-ESOPH FIST ATRES	59	45 (76.3)	13	7 (5.3)
7511	ATRES STEN SMALL INTEST	61	49 (80.3)	37	26 (7.0)
7512	ATRES STEN RECT ANUS	96	75 (78.1)	38	15 (3.9)
7513	HIRSCHSPRUNG'S DISEASE	34	30 (88.2)	17	10 (5.8)
7514	ANOM INTEST FIXATION	45	31 (68.9)	23	13 (5.6)
7516	ANOM GALL-BLAD,BILE,LIVER	61	42 (68.9)	52	27 (5.1)
7517	ANOM PANCREAS	7	5 (71.4)	3	3 (10.0)
7520	INDETERMINATE SEX	4	4 (100.0)	2	1 (5.0)
7522	HYPOSPADIAS	630	477 (75.7)	186	112 (6.0)
7523	EPISPADIAS	17	12 (70.6)	10	5 (5.0)
7525	ANOM OVARY,FALLOP,UTERUS	26	15 (57.7)	5	1 (2.0)
7526	ANOM VAGINA,EXT FEM GENIT	36	23 (63.9)	35	15 (4.2)
7527	PSEUDOHERMAPHRODITISM	24	14 (58.3)	17	14 (3.2)
7530	RENAL AGENESIS	66	50 (75.8)	19	9 (4.7)
7531	CYSTIC KIDNEY DISEASE	50	37 (74.0)	29	13 (4.8)
7532	OBSTRUCT DEF URIN TRACT	87	69 (79.3)	52	20 (3.8)

Table 19. Numbers of Mothers Eligible for Interview and Numbers of Fully Completed Interviews, by Category of Defect, Type of Defect, and Race^a — Continued

Type of Defect		White		Other	
Code	Defect Description	Eligible	Completed	Eligible	Completed
CATEGORY 1 DEFECTS (Continued):^b					
7535	EXSTROPHY URIN BLADDER	11	7 (63.6)	4	2 (50.0)
7536	ATRES STEN URETHRA,BLAD	60	43 (71.7)	17	8 (47.1)
7540	CLUBFOOT	944	707 (74.9)	286	168 (58.7)
7552	REDUCT DEF UPPER LIMB	122	85 (69.7)	57	30 (52.6)
7553	REDUCT DEF LOWER LIMB	45	33 (73.3)	21	12 (57.1)
7554	REDUCT DEF UNSPEC LIMB	1	1 (100.0)	0	0 (0.0)
7558	GEN FLEXION CONTRACTURE	24	15 (62.5)	18	12 (66.7)
7564	CHONDRODYSTROPHY	15	8 (53.3)	9	6 (66.7)
7565	OSTEOGENESIS IMPERFECTA	8	4 (50.0)	4	3 (75.0)
7570	HEREDITARY OEDEMA OF LEGS	3	3 (100.0)	1	0 (0.0)
7573	SPEC ANOM HAIR	7	4 (57.1)	11	9 (81.8)
7574	SPEC ANOM NAILS	17	6 (35.3)	20	11 (55.0)
7580	ANOMALIES OF SPLEEN	34	25 (73.5)	28	18 (64.3)
7581	ANOM ADRENAL GLAND	8	5 (62.5)	2	1 (50.0)
7582	ANOM THYROID GLAND	26	20 (76.9)	6	5 (83.3)
7583	ANOM OTHER ENDOCRINE	10	8 (80.0)	11	6 (54.5)
7590	SITUS INVERSUS	7	6 (85.7)	14	8 (57.1)
7591	CONJOINED TWINS	7	5 (71.4)	1	0 (0.0)
7592	OTH FORM MONSTER	5	5 (100.0)	1	0 (0.0)
7593	DOWN'S DISEASE	208	163 (78.4)	101	56 (55.4)
7594	OTH SYND AUTOSOMAL ABNORM	38	30 (78.9)	28	17 (60.7)
7596	TUBEROUS SCLEROSIS	1	1 (100.0)	1	0 (0.0)
7598	OTH SPEC SYND	63	44 (69.8)	84	40 (47.6)
7599	MULT CONGEN ANOM UNSPEC	4	1 (25.0)	2	2 (100.0)
S603	DIAPHRAGMATIC HERNIA	61	47 (77.0)	38	29 (76.3)
S606	OMPHALOCELE	111	84 (75.7)	44	28 (63.6)
S621	OTHER NEOPLASM	90	75 (83.3)	28	16 (57.1)
S702	CYTOMEGALOVIRUS	11	8 (72.7)	6	2 (33.3)
S704	HERPES SIMPLEX	4	3 (75.0)	8	8 (100.0)
S705	SYPHILIS	2	0 (0.0)	29	8 (27.6)
CATEGORY 2 DEFECTS:					
7432	OTH SPEC ANOMALIES BRAIN	44	33 (75.0)	24	16 (66.7)
7433	OTH SPEC ANOM SPINAL CORD	6	5 (83.3)	1	1 (100.0)
7438	OTH ANOM OF NERVOUS SYS	4	3 (75.0)	1	1 (100.0)
7448	OTH SPEC ANOM OF EYE	79	61 (77.2)	47	30 (63.8)
7452	OTH SPEC ANOM OF EAR	175	120 (68.6)	124	67 (54.0)
7458	OTH SPEC ANOM FACE,NECK	22	12 (54.5)	17	7 (41.2)
7468	OTH SPEC ANOM HEART	197	150 (76.1)	102	65 (63.7)
7469	UNSPEC ANOM HEART	94	66 (70.2)	44	15 (34.1)
7476	OTH ANOM PERIPH VASC SYS	32	25 (78.1)	19	8 (42.1)
7478	OTH SPEC ANOM CIRC SYS	5	4 (80.0)	1	0 (0.0)
7481	OTH ANOM NOSE	32	21 (65.6)	16	6 (37.5)
7483	OTH ANOM LARYN,TRACH,BRON	13	11 (84.6)	9	4 (44.4)
7486	OTH ANOM LUNG	47	32 (68.1)	45	23 (51.1)
7488	OTH SPEC ANOM RESP SYS	1	1 (100.0)	1	1 (100.0)
7493	ANOM JAW	119	83 (69.7)	51	25 (49.0)
7500	ANOMALIES OF TONGUE	22	19 (86.4)	12	7 (58.3)
7508	OTH SPEC ANOM UP ALIMENT	51	34 (66.7)	20	17 (85.0)
7515	OTH ANOM INTEST	26	19 (73.1)	15	10 (66.7)

Table 19. Numbers of Mothers Eligible for Interview and Numbers of Fully Completed Interviews, by Category of Defect, Type of Defect, and Race^a — Continued

Type of Defect		White		Other	
Code	Defect Description	Eligible	Completed	Eligible	Completed
CATEGORY 2 DEFECTS (Continued):^b					
7528	OTH SPEC ANOM GENITAL	68	54 (79.4)	37	24 (64.9)
7533	OTH SPEC ANOM KIDNEY	32	19 (59.4)	15	7 (46.7)
7534	OTH SPEC ANOM URETER	24	20 (83.3)	5	3 (60.0)
7538	OTH SPEC ANOM BLAD URETH	29	20 (69.0)	10	7 (70.0)
7551	SYNDACTYLY	74	52 (70.3)	29	15 (51.7)
7555	OTH ANOM UPPER LIMB	125	89 (71.2)	79	45 (57.0)
7556	DISLOCATION OF HIP	70	51 (72.9)	29	16 (55.2)
7557	OTH ANOM LOWER LIMB	115	77 (67.0)	71	46 (64.8)
7559	OTH UNSPEC LIMB	3	3 (100.0)	5	3 (60.0)
7560	ANOM SKULL,FACE BONES	143	103 (72.0)	42	24 (57.1)
7561	ANOM SPINE	65	49 (75.4)	43	20 (46.5)
7563	OTH ANOM RIBS STERNUM	44	31 (70.5)	23	13 (56.5)
7566	OTH GEN ANOM SKELETON	3	2 (66.7)	3	0 (0.0)
7568	OTH SPEC ANOM MUSC,TEND	27	20 (74.1)	22	14 (63.6)
7572	OTH SPEC ANOM SKIN	77	51 (66.2)	43	28 (65.1)
7595	SYND SEX CHROM ABNORM	21	13 (61.9)	4	1 (25.0)
S605	OTH DEF ABDOMINAL CAVITY	1	1 (100.0)	0	0 (0.0)
CATEGORY 3 DEFECTS:					
7439	UNSPEC ANOM OF CNS	4	3 (75.0)	0	0 (0.0)
7449	UNSPEC ANOM OF EYE	5	5 (100.0)	0	0 (0.0)
7451	ACCESSORY AURICLE	41	32 (78.0)	17	9 (52.9)
7453	UNSPEC ANOM OF EAR	10	7 (70.0)	8	5 (62.5)
7454	BRANCH CLEFT CYST FIST	10	8 (80.0)	7	2 (28.6)
7455	WEBBING OF NECK	26	15 (57.7)	12	8 (66.7)
7459	UNSPEC ANOM FACE,NECK	6	3 (50.0)	1	0 (0.0)
7475	ABS HYPO UMBILICAL ARTERY	38	25 (65.8)	21	12 (57.1)
7479	UNSPEC ANOM CIRC SYS	1	1 (100.0)	0	0 (0.0)
7482	WEB OF LARYNX	0	0 (0.0)	1	1 (100.0)
7494	ANOM UVULA	5	4 (80.0)	1	0 (0.0)
7509	UNSPEC ANOM UP ALIMENT	1	1 (100.0)	0	0 (0.0)
7510	MECKEL'S DIVERTICULUM	12	10 (83.3)	3	3 (100.0)
7518	OTH SPEC ANOM DIGEST SYS	3	2 (66.7)	0	0 (0.0)
7521	UNDESCENDED TESTICLE	106	82 (77.4)	65	38 (58.5)
7524	CONGENITAL HYDROCELE	65	46 (70.8)	23	12 (52.2)
7529	UNSPEC ANOM GENITAL	5	5 (100.0)	1	0 (0.0)
7539	UNSPEC ANOM URIN SYS	2	2 (100.0)	1	1 (100.0)
7550	POLYDACTYLY	56	43 (76.8)	64	43 (67.2)
7562	CERVICAL RIB	2	2 (100.0)	0	0 (0.0)
7569	UNSPEC ANOM MUSCSKEL SYS	1	0 (0.0)	0	0 (0.0)
7571	PIGMENTED NAEVUS	5	4 (80.0)	6	4 (66.7)
7579	UNSPEC ANOM SKIN,HAIR,NAIL	1	0 (0.0)	1	1 (100.0)
7588	OTH SPECIFIED CONG ANOM	0	0 (0.0)	2	0 (0.0)
S600	INGUINAL HERNIA	101	74 (73.3)	34	18 (52.9)
S602	UMBILICAL HERNIA	35	25 (71.4)	38	22 (57.9)
S604	OTH UNSPEC HERNIAS	5	4 (80.0)	5	4 (80.0)
S610	DIS AMINO ACID PROT METAB	0	0 (0.0)	5	2 (40.0)
S611	DIS CARBOHYD METAB	1	1 (100.0)	3	2 (66.7)
S613	DIS STEROID METAB	3	2 (66.7)	3	3 (100.0)
S615	DIS METAB MINERALS	1	1 (100.0)	0	0 (0.0)

Table 19. Numbers of Mothers Eligible for Interview and Numbers of Fully Completed Interviews, by Category of Defect, Type of Defect, and Race^a — Continued

Type of Defect		White		Other	
Code	Defect Description	Eligible	Completed	Eligible	Completed
CATEGORY 3 DEFECTS (Continued):^b					
S617	DIS RENAL TRANSPORT	1	1 (100.0)	0	0 (0.0)
S618	DIS EXOCRINE GLANDS	6	6 (100.0)	0	0 (0.0)
S619	OTH UNSPEC DIS METAB	2	1 (50.0)	1	1 (100.0)
S620	HEMANGIOMA LYMPHANGIOMA	56	41 (73.2)	12	6 (50.0)
S700	UNSPEC TORCH INFECT	4	3 (75.0)	3	2 (66.7)

^aFigures in parentheses are numbers of interviews completed as percentages of numbers eligible.

^bSee text for definition of defect categories.

Table 20. Veteran Status of Fathers According to Mothers and Fathers, by Case/Control Status and Race^a

	Veteran Status			Total
	Yes	No	DK ^b	
Responding Parent: Mother				
Race: White				
Case Group	1,872 (48.5)	1,970 (51.1)	15 (0.4)	3,857 (100.0)
Control Group	1,159 (50.0)	1,156 (49.8)	5 (0.2)	2,320 (100.0)
Race: Other				
Case Group	335 (29.5)	763 (67.2)	37 (3.3)	1,135 (100.0)
Control Group	229 (30.9)	499 (67.3)	13 (1.8)	741 (100.0)
Responding Parent: Father				
Race: White				
Case Group	1,728 (50.1)	1,720 (49.9)	1 (0.0)	3,449 (100.0)
Control Group	1,051 (51.1)	1,004 (48.8)	1 (0.1)	2,056 (100.0)
Race: Other				
Case Group	214 (34.9)	399 (65.0)	1 (0.2)	614 (100.0)
Control Group	160 (37.0)	272 (63.0)	0 (0.0)	432 (100.0)

^aFigures in parentheses are percentages of totals.

^bDK = don't know.

Table 21. Veteran Status of Fathers According to Mothers, by Case/Control Status for Families, With and Without Completed Father's Interviews^a

	Father Interviewed	Veteran Status			Total
		Yes	No	DK ^a	
Race: White					
Case Group	Yes	1,639 (50.0)	1,631 (49.8)	8 (0.2)	3,278 (100.0)
	No	233 (40.2)	339 (58.6)	7 (1.2)	579 (100.0)
Control Group	Yes	1,007 (51.4)	952 (48.6)	0 (0.0)	1,959 (100.0)
	No	152 (42.1)	204 (56.5)	5 (1.4)	361 (100.0)
Race: Other					
Case Group	Yes	197 (35.1)	362 (64.5)	2 (0.4)	561 (100.0)
	No	138 (24.0)	401 (69.9)	35 (6.1)	574 (100.0)
Control Group	Yes	141 (36.9)	241 (63.1)	0 (0.0)	382 (100.0)
	No	88 (24.5)	258 (71.9)	13 (3.6)	359 (100.0)

^aFigures in parentheses are percentages of totals.

^bDK = don't know.

Table 22. Veteran Status of Fathers. Mothers' Responses Tabulated by Fathers' Responses, Case/Control Status, and Race^a

Race: White

Father's Response	Mother's Response			Total
	Yes	No	DK ^b	
Case Group Parents:				
Yes	1,612 (49.2)	43 (1.3)	2 (0.1)	1,657 (50.5)
No	27 (0.8)	1,587 (48.4)	6 (0.2)	1,620 (49.4)
DK	0 (0.0)	1 (0.0)	0 (0.0)	1 (0.0)
Total	1,639 (50.0)	1,631 (49.8)	8 (0.2)	3,278 (100.0)
Control Group Parents:				
Yes	990 (50.5)	19 (1.0)	0 (0.0)	1,009 (51.5)
No	17 (0.9)	932 (47.6)	0 (0.0)	949 (48.4)
DK	0 (0.0)	1 (0.1)	0 (0.0)	1 (0.1)
Total	1,007 (51.4)	952 (48.6)	0 (0.0)	1,959 (100.0)

Race: Other

Father's Response	Mother's Response			Total
	Yes	No	DK ^b	
Case Group Parents:				
Yes	190 (33.9)	7 (1.2)	0 (0.0)	197 (35.1)
No	7 (1.2)	355 (63.3)	2 (0.4)	364 (64.9)
DK	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Total	197 (35.1)	362 (64.5)	2 (0.4)	561 (100.0)
Control Group Parents:				
Yes	133 (34.8)	7 (1.8)	0 (0.0)	140 (36.6)
No	8 (2.1)	234 (61.3)	0 (0.0)	242 (63.4)
DK	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Total	141 (36.9)	241 (63.1)	0 (0.0)	382 (100.0)

^aFigures in parentheses are percentages of grand totals.

^bDK = Don't know.

Table 23. Veteran Status of Fathers According to Mothers, by Case/Control Status, Availability of Fathers' Names on Study Records, and Race^a

	Father's Name Available	Veteran Status			Total
		Yes	No	DK ^b	
Race: White					
Case	Yes	1,855 (49.1)	1,917 (50.7)	8 (0.2)	3,780 (100.0)
Group	No	17 (22.1)	53 (68.8)	7 (9.1)	77 (100.0)
Control	Yes	1,153 (50.5)	1,123 (49.3)	4 (0.2)	2,280 (100.0)
Group	No	6 (15.0)	33 (82.5)	1 (2.5)	40 (100.0)
Race: Other					
Case	Yes	256 (34.3)	478 (64.1)	12 (1.6)	746 (100.0)
Group	No	79 (20.3)	285 (73.3)	25 (6.4)	389 (100.0)
Control	Yes	186 (33.8)	360 (65.5)	4 (0.7)	550 (100.0)
Group	No	43 (22.5)	139 (72.8)	9 (4.7)	191 (100.0)

^aFigures in parentheses are percentages of totals.

^bDK = don't know.

Table 24. Veteran Status of Fathers According to Mothers and Fathers, by Case/Control Status, Race, and Portion of Interview Completed^a

		Veteran Status			Total
		Yes	No	DK ^c	
Portion Complete ^b					
Responding Parent: Mother					
Race: White					
Case	Partial	21 (47.7)	22 (50.0)	1 (2.3)	44 (100.0)
Group	Full	1,851 (48.5)	1,948 (51.1)	14 (0.4)	3,813 (100.0)
Control	Partial	4 (21.1)	15 (78.9)	0 (0.0)	19 (100.0)
Group	Full	1,155 (50.2)	1,141 (49.6)	5 (0.2)	2,301 (100.0)
Race: Other					
Case	Partial	3 (15.8)	14 (73.7)	2 (10.5)	19 (100.0)
Group	Full	332 (29.8)	749 (67.1)	35 (3.1)	1,116 (100.0)
Control	Partial	2 (15.4)	9 (69.2)	2 (15.4)	13 (100.0)
Group	Full	227 (31.2)	490 (67.3)	11 (1.5)	728 (100.0)
Race: Total					
Case	Partial	24 (38.1)	36 (57.1)	3 (4.8)	63 (100.0)
Group	Full	2,183 (44.3)	2,697 (54.7)	49 (1.0)	4,929 (100.0)
Control	Partial	6 (18.8)	24 (75.0)	2 (6.3)	32 (100.0)
Group	Full	1,382 (45.6)	1,631 (53.8)	16 (0.5)	3,029 (100.0)
Responding Parent: Father					
Race: White					
Case	Partial	37 (56.9)	28 (43.1)	0 (0.0)	65 (100.0)
Group	Full	1,691 (50.0)	1,692 (50.0)	1 (0.0)	3,384 (100.0)
Control	Partial	18 (36.0)	32 (64.0)	0 (0.0)	50 (100.0)
Group	Full	1,033 (51.5)	972 (48.5)	1 (0.0)	2,006 (100.0)
Race: Other					
Case	Partial	4 (19.0)	17 (81.0)	0 (0.0)	21 (100.0)
Group	Full	210 (35.4)	382 (64.4)	1 (0.2)	593 (100.0)
Control	Partial	4 (33.3)	8 (66.7)	0 (0.0)	12 (100.0)
Group	Full	156 (37.1)	264 (62.9)	0 (0.0)	420 (100.0)
Race: Total					
Case	Partial	41 (47.7)	45 (52.3)	0 (0.0)	86 (100.0)
Group	Full	1,901 (47.8)	2,074 (52.1)	2 (0.1)	3,977 (100.0)
Control	Partial	22 (35.5)	40 (64.5)	0 (0.0)	62 (100.0)
Group	Full	1,189 (49.0)	1,236 (51.0)	1 (0.0)	2,426 (100.0)

^aFigures in parentheses are percentages of totals.

^bPartial complete category includes only those partially complete interviews in which a military history was obtained (includes those with "premature termination" interviews; see text).

^cDK = don't know.

Table 25. Veteran Status of Fathers According to Mothers and Fathers, by Case/Control Status and Portion of Interview Completed^a

Mother's Interview Fully Complete, Father's Interview Partially Complete

Father's Response	Mother's Response			Total
	Yes	No	DK ^b	
Case Group Parents:				
Yes	30 (42.9)	2 (2.9)	0 (0.0)	32 (45.7)
No	2 (2.9)	36 (51.4)	0 (0.0)	38 (54.3)
DK	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Total	32 (45.7)	38 (54.3)	0 (0.0)	70 (100.0)
Control Group Parents:				
Yes	14 (29.2)	1 (2.1)	0 (0.0)	15 (31.3)
No	2 (4.2)	31 (64.6)	0 (0.0)	33 (68.8)
DK	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Total	16 (33.3)	32 (66.7)	0 (0.0)	48 (100.0)

Father's Interview Fully Complete, Mother's Interview Partially Complete

Father's Response	Mother's Response			Total
	Yes	No	DK ^b	
Case Group Parents:				
Yes	13 (50.0)	1 (3.8)	0 (0.0)	14 (53.8)
No	0 (0.0)	11 (42.3)	1 (3.8)	12 (46.2)
DK	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Total	13 (50.0)	12 (46.2)	1 (3.8)	26 (100.0)
Control Group Parents:				
Yes	2 (15.4)	0 (0.0)	0 (0.0)	2 (15.4)
No	0 (0.0)	11 (84.6)	0 (0.0)	11 (84.6)
DK	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Total	2 (15.4)	11 (84.6)	0 (0.0)	13 (100.0)

^aFigures in parentheses are percentages of grand totals.

^bDK = Don't know.

Table 26. Veteran Status of Fathers According to Mothers, by Race and Year of Index Birth^a

Year	White		Other	
	Total Mothers	Veteran Fathers	Total Mothers	Veteran Fathers
1968	363	190 (52.3)	88	26 (29.5)
1969	439	247 (56.3)	74	22 (29.7)
1970	477	250 (52.4)	91	33 (36.3)
1971	439	256 (58.3)	92	31 (33.7)
1972	396	221 (55.8)	88	29 (33.0)
1973	459	245 (53.4)	110	35 (31.8)
1974	497	265 (53.3)	147	41 (27.9)
1975	574	296 (51.6)	162	51 (31.5)
1976	492	230 (46.7)	171	59 (34.5)
1977	475	217 (45.7)	182	43 (23.6)
1978	467	177 (37.9)	198	51 (25.8)
1979	583	257 (44.1)	231	67 (29.0)
1980	516	180 (34.9)	242	76 (31.4)

^aFigures in parentheses are percentages of totals.

Table 27. Veteran Status of Fathers According to Mothers, by Race and Hospital of Birth^a

Hospital Code	White		Other	
	Total Mothers	Veteran Fathers	Total Mothers	Veteran Fathers
1	23	6 (26.1)	1	0 (0.0)
2	60	17 (28.3)	3	0 (0.0)
3	329	156 (47.4)	25	7 (28.0)
4	325	167 (51.4)	14	3 (21.4)
5	322	156 (48.7)	167	70 (41.9)
6	952	466 (48.9)	116	43 (37.1)
7	189	63 (33.3)	29	10 (34.5)
9	159	90 (56.6)	2	0 (0.0)
10	623	326 (52.3)	101	47 (46.5)
11	219	67 (30.6)	1,064	225 (21.2)
12	8	1 (12.5)	0	0 (0.0)
13	0	0 (0.0)	37	13 (35.1)
14	92	27 (29.3)	4	1 (25.0)
15	501	251 (50.1)	25	9 (36.0)
16	1,127	569 (50.5)	44	19 (43.2)
17	526	282 (53.6)	23	12 (52.2)
18	18	11 (61.1)	131	54 (41.2)
20	618	319 (51.6)	57	26 (45.6)
21	67	39 (58.2)	18	11 (61.1)
22	19	18 (94.7)	15	14 (93.3)

^aCase and control groups combined. Figures in parentheses are percentages of totals.

Table 28. Veteran Status of Fathers According to Mothers, by Date of Mother's Interview Completion^a

Date of Completion	Veteran Status			Total
	Yes	No	DK ^b	
05/82-10/82	1,871 (49.6)	1,889 (50.1)	11 (0.3)	3,771 (100.0)
11/82-04/83	1,029 (42.5)	1,363 (56.4)	27 (1.1)	2,419 (100.0)
05/83-10/83	695 (37.3)	1,136 (61.0)	32 (1.7)	1,863 (100.0)

^aCase and control groups combined. Figures in parentheses are percentages of totals.

^bDK = Don't know.

Table 29. Vietnam Veteran Status of Fathers According to Mothers and Fathers by Case/Control Status and Race^a

	Vietnam Veteran Status			Total
	Yes	No	NC ^b	
Responding Parent: Mother				
Race: White				
Case Group	356 (9.2)	3,427 (88.9)	74 (1.9)	3,857 (100.0)
Control Group	221 (9.5)	2,055 (88.6)	44 (1.9)	2,320 (100.0)
Race: Other				
Case Group	75 (6.6)	973 (85.7)	87 (7.7)	1,135 (100.0)
Control Group	47 (6.3)	648 (87.4)	46 (6.2)	741 (100.0)
Responding Parent: Father				
Race: White				
Case Group	357 (10.4)	3,070 (89.0)	22 (0.6)	3,449 (100.0)
Control Group	213 (10.4)	1,824 (88.7)	19 (0.9)	2,056 (100.0)
Race: Other				
Case Group	61 (9.9)	551 (89.7)	2 (0.3)	614 (100.0)
Control Group	41 (9.5)	388 (89.8)	3 (0.7)	432 (100.0)

^aFigures in parentheses are percentages of totals.

^bNC = not classified, see text.

Table 30. Vietnam Veteran Status According to Mothers, by Case/Control Status, for Families With and Without Completed Father's Interviews^a

		Vietnam Veteran Status			Total
		Father Interviewed	Yes	No	
Race: White					
Case	Yes	319 (9.7)	2,910 (88.8)	49 (1.5)	3,278 (100.0)
Group	No	37 (6.4)	517 (89.3)	25 (4.3)	579 (100.0)
Control	Yes	193 (9.9)	1,734 (88.5)	32 (1.6)	1,959 (100.0)
Group	No	28 (7.8)	321 (88.9)	12 (3.3)	361 (100.0)
Race: Other					
Case	Yes	48 (8.6)	492 (87.7)	21 (3.7)	561 (100.0)
Group	No	27 (4.7)	481 (83.8)	66 (11.5)	574 (100.0)
Control	Yes	31 (8.1)	334 (87.4)	17 (4.5)	382 (100.0)
Group	No	16 (4.5)	314 (87.5)	29 (8.1)	359 (100.0)

^aFigures in parentheses are percentages of totals.

^bNC = not classified, see text.

Table 31. Vietnam Veteran Status of Fathers. Mothers' Responses Tabulated by Fathers' Responses, Case/Control Status, and Race^a

Father's Response	Mother's Response			Total
	Yes	No	NC ^b	
Race: White				
Case Group Parents:				
Yes	304 (9.3)	30 (0.9)	8 (0.2)	342 (10.4)
No	11 (0.3)	2,867 (87.5)	36 (1.1)	2,914 (88.9)
NC	4 (0.1)	13 (0.4)	5 (0.2)	22 (0.7)
Total	319 (9.7)	2,910 (88.8)	49 (1.5)	3,278 (100.0)
Control Group Parents:				
Yes	182 (9.3)	19 (1.0)	6 (0.3)	207 (10.6)
No	11 (0.6)	1,706 (87.1)	16 (0.8)	1,733 (88.5)
NC	0 (0.0)	9 (0.5)	10 (0.5)	19 (1.0)
Total	193 (9.9)	1,734 (88.5)	32 (1.6)	1,959 (100.0)
Race: Other				
Case Group Parents:				
Yes	46 (8.2)	9 (1.6)	4 (0.7)	59 (10.5)
No	2 (0.4)	483 (86.1)	16 (2.9)	501 (89.3)
NC	0 (0.0)	0 (0.0)	1 (0.2)	1 (0.2)
Total	48 (8.6)	492 (87.7)	21 (3.7)	561 (100.0)
Control Group Parents:				
Yes	25 (6.5)	4 (1.0)	5 (1.3)	34 (8.9)
No	6 (1.6)	328 (85.9)	11 (2.9)	345 (90.3)
NC	0 (0.0)	2 (0.5)	1 (0.3)	3 (0.8)
Total	31 (8.1)	334 (87.4)	17 (4.5)	382 (100.0)

^aFigures in parentheses are percentages of grand totals.

^bNC = not classified, see text.

Table 32. Vietnam Veteran Status of Father According to Mothers, by Race and Year of Index Birth^a

Year	Total Mothers	Vietnam Veteran Status	
		Yes	NC ^b
Race: White			
1968	363	10 (2.8)	11 (3.0)
1969	439	18 (4.1)	13 (3.0)
1970	477	33 (6.9)	11 (2.3)
1971	439	37 (8.4)	15 (3.4)
1972	396	38 (9.6)	7 (1.8)
1973	459	55 (12.0)	10 (2.2)
1974	497	57 (11.5)	7 (1.4)
1975	574	77 (13.4)	5 (0.9)
1976	492	57 (11.6)	6 (1.2)
1977	475	51 (10.7)	6 (1.3)
1978	467	43 (9.2)	8 (1.7)
1979	583	58 (9.9)	10 (1.7)
1980	516	43 (8.3)	9 (1.7)
Race: Other			
1968	88	3 (3.4)	8 (9.1)
1969	74	5 (6.8)	1 (1.4)
1970	91	4 (4.4)	5 (5.5)
1971	92	8 (8.7)	7 (7.6)
1972	88	9 (10.2)	5 (5.7)
1973	110	9 (8.2)	8 (7.3)
1974	147	13 (8.8)	14 (9.5)
1975	162	8 (4.9)	14 (8.6)
1976	171	10 (5.8)	14 (8.2)
1977	182	13 (7.1)	13 (7.1)
1978	198	14 (7.1)	8 (4.0)
1979	231	17 (7.4)	17 (7.4)
1980	242	9 (3.7)	19 (7.9)

^aCase and control groups combined. Figures in parentheses are percentages of totals.

^bNC = not classified, see text.

Table 33. Vietnam Veteran Status of Father According to Mothers, by Race and Hospital of Birth^a

Hospital Code	Total Mothers	Vietnam Veteran Status	
		Yes	NC ^b
Race: White			
1	23	0 (0.0)	0 (0.0)
2	60	3 (5.0)	1 (1.7)
3	329	40 (12.2)	5 (1.5)
4	325	31 (9.5)	7 (2.2)
5	322	20 (6.2)	4 (1.2)
6	952	101 (10.6)	13 (1.4)
7	189	11 (5.8)	5 (2.6)
9	159	10 (6.3)	2 (1.3)
10	623	45 (7.2)	10 (1.6)
11	219	13 (5.9)	12 (5.5)
12	8	0 (0.0)	0 (0.0)
13	0	0 (0.0)	0 (0.0)
14	92	9 (9.8)	1 (1.1)
15	501	52 (10.4)	13 (2.6)
16	1,127	118 (10.5)	8 (0.7)
17	526	46 (8.7)	9 (1.7)
18	18	4 (22.2)	1 (5.6)
20	618	64 (10.4)	26 (4.2)
21	67	4 (6.0)	1 (1.5)
22	19	6 (31.6)	0 (0.0)
Race: Other			
1	1	0 (0.0)	0 (0.0)
2	3	0 (0.0)	0 (0.0)
3	25	1 (4.0)	1 (4.0)
4	14	0 (0.0)	1 (7.1)
5	167	20 (12.0)	5 (3.0)
6	116	11 (9.5)	2 (1.7)
7	29	2 (6.9)	3 (10.3)
9	2	0 (0.0)	0 (0.0)
10	101	14 (13.9)	6 (5.9)
11	1,064	38 (3.6)	90 (8.5)
12	0	0 (0.0)	0 (0.0)
13	37	1 (2.7)	5 (13.5)
14	4	0 (0.0)	0 (0.0)
15	25	2 (8.0)	2 (8.0)
16	44	2 (4.5)	2 (4.5)
17	23	4 (17.4)	3 (13.0)
18	131	9 (6.9)	7 (5.3)
20	57	8 (14.0)	4 (7.0)
21	18	5 (27.8)	1 (5.6)
22	15	5 (33.3)	1 (6.7)

^aCase and control groups combined. Figures in parentheses are percentages of totals.
^bNC = not classified, see text.

Table 34. Vietnam Veteran Status of Fathers According to Mothers, by Date of Mother's Interview Completion^a

Date of Completion	Vietnam Veteran Status			Total
	Yes	No	NC ^b	
05/82-10/82	380 (10.1)	3,315 (87.9)	76 (2.0)	3,771 (100.0)
11/82-04/83	184 (7.6)	2,149 (88.8)	86 (3.6)	2,419 (100.0)
05/83-10/83	135 (7.3)	1,639 (88.0)	89 (4.7)	1,863 (100.0)

^aCase and control groups combined. Figures in parentheses are percentages of totals.

^bNC = not classified, see text.

Table 35. Self-Reports of Fathers' Agent Orange Exposure According to Mothers and Fathers, by Case/Control Status and Race^a

Responding Parent: Mothers			
Exposure	Case Group	Control Group	
Race: White			
Yes	74 (1.9)	38 (1.6)	
DK ^b	133 (3.4)	80 (3.4)	
No	3,576 (92.7)	2,158 (93.0)	
NC ^c	74 (1.9)	44 (1.9)	
Total	3,857 (100.0)	2,320 (100.0)	
Race: Other			
Yes	11 (1.0)	3 (0.4)	
DK	42 (3.7)	24 (3.2)	
No	995 (87.7)	668 (90.1)	
NC	87 (7.7)	46 (6.2)	
Total	1,135 (100.0)	741 (100.0)	
Responding Parent: Fathers ^d			
Exposure	Case Group	Control Group	
Race: White			
Yes	92 (2.7)	44 (2.1)	
DK	88 (2.6)	41 (2.0)	
No	3,247 (94.2)	1,952 (94.9)	
NC	22 (0.6)	19 (0.9)	
Total	3,449 (100.0)	2,056 (100.0)	
Race: Other			
Yes	18 (2.9)	10 (2.3)	
DK	15 (2.4)	12 (2.8)	
No	579 (94.3)	407 (94.2)	
NC	2 (0.3)	3 (0.7)	
Total	614 (100.0)	432 (100.0)	

^aFigures in parentheses are percentages of totals.

^bDK = don't know.

^cNC = not classified, see text.

^dIncludes fathers who spent time in Vietnam in extra-military capacities.

Table 36. Self-Reports of Agent Orange Exposure According to Fathers, by Race and Year of Index Birth^a

Year	Total Fathers	Agent Orange Exposure		
		Yes	DK ^b	NC ^c
Race: White				
1968	325	3 (0.9)	2 (0.6)	6 (1.8)
1969	398	7 (1.8)	4 (1.0)	6 (1.5)
1970	438	12 (2.7)	10 (2.3)	8 (1.8)
1971	385	9 (2.3)	14 (3.6)	8 (2.1)
1972	349	12 (3.4)	4 (1.1)	5 (1.4)
1973	411	15 (3.6)	10 (2.4)	7 (1.7)
1974	444	11 (2.5)	16 (3.6)	1 (0.2)
1975	517	16 (3.1)	16 (3.1)	0 (0.0)
1976	443	13 (2.9)	16 (3.6)	0 (0.0)
1977	411	9 (2.2)	16 (3.9)	0 (0.0)
1978	412	9 (2.2)	8 (1.9)	0 (0.0)
1979	514	13 (2.5)	7 (1.4)	0 (0.0)
1980	458	7 (1.5)	6 (1.3)	0 (0.0)
Race: Other				
1968	52	1 (1.9)	0 (0.0)	0 (0.0)
1969	40	1 (2.5)	1 (2.5)	0 (0.0)
1970	53	0 (0.0)	2 (3.8)	1 (1.9)
1971	49	2 (4.1)	0 (0.0)	1 (2.0)
1972	46	2 (4.3)	1 (2.2)	0 (0.0)
1973	67	1 (1.5)	5 (7.5)	1 (1.5)
1974	77	4 (5.2)	3 (3.9)	0 (0.0)
1975	87	1 (1.1)	1 (1.1)	1 (1.1)
1976	102	3 (2.9)	5 (4.9)	0 (0.0)
1977	96	4 (4.2)	0 (0.0)	0 (0.0)
1978	108	6 (5.6)	0 (0.0)	0 (0.0)
1979	128	0 (0.0)	5 (3.9)	1 (0.8)
1980	141	3 (2.1)	4 (2.8)	0 (0.0)

^aCase and control groups combined. Figures in parentheses are percentages of totals.

^bDK = don't know.

^cNC = not classified, see text.

Table 37. Self-Reports of Agent Orange Exposure According to Fathers, by Selected Experiences in Vietnam^a

	Agent Orange Exposure		
	Yes	DK ^c	No
Father in Area Sprayed to Cause Leaves to Drop from Trees^b			
Yes	143 (89.9)	41 (28.5)	41 (12.2)
No	10 (6.2)	27 (18.8)	258 (76.8)
NC ^d	6 (3.7)	76 (52.8)	37 (11.0)
Total	159 (100.0)	144 (100.0)	336 (100.0)
Father Served in Jungle^b			
Yes	106 (66.7)	72 (50.0)	82 (24.4)
No	52 (32.7)	72 (50.0)	254 (75.6)
NC	1 (0.6)	0 (0.0)	0 (0.0)
Total	159 (100.0)	144 (100.0)	336 (100.0)
Father Served in Cities^b			
Yes	44 (27.6)	46 (31.9)	111 (33.0)
No	114 (71.7)	98 (68.1)	224 (66.7)
NC	1 (0.6)	0 (0.0)	1 (0.3)
Total	159 (100.0)	144 (100.0)	336 (100.0)

^aCase and control groups combined. Figures in parentheses are percentages of totals.

^bReport of father.

^cDK = don't know.

^dNC = not classified, see text.

Table 38. Agent Orange Exposure Opportunity Index According to Information Obtained During Interviews^a

Index Score	Case Group	Control Group
Race: White		
1	105 (29.4)	69 (32.4)
2	53 (14.9)	38 (17.8)
3	70 (19.6)	31 (14.6)
4	40 (11.2)	16 (7.5)
5	24 (6.7)	14 (6.6)
NC ^b	65 (18.2)	45 (21.1)
Total	357 (100.0)	213 (100.0)
Race: Other		
1	15 (24.6)	9 (22.0)
2	17 (27.9)	8 (19.5)
3	9 (14.8)	10 (24.4)
4	13 (21.3)	7 (17.1)
5	2 (3.3)	0 (0.0)
NC	5 (8.2)	7 (17.1)
Total	61 (100.0)	41 (100.0)

^aFigures in parentheses are percentages of totals.

^bNC = not classified, see text.

Table 39. Agent Orange Exposure Opportunity Index According to Information Contained in Military Records^a

Index Score	Case Group	Control Group
Race: White		
1	103 (28.9)	64 (30.1)
2	53 (14.8)	28 (13.1)
3	46 (12.9)	27 (12.7)
4	35 (9.8)	14 (6.6)
5	38 (10.6)	21 (9.9)
NC ^b	82 (23.0)	59 (27.7)
Total	357 (100.0)	213 (100.0)
Race: Other		
1	19 (31.2)	10 (24.4)
2	7 (11.5)	3 (7.3)
3	8 (13.1)	7 (17.1)
4	5 (8.2)	4 (9.8)
5	6 (9.8)	2 (4.9)
NC	16 (26.2)	15 (36.6)
Total	61 (100.0)	41 (100.0)

^aFigures in parentheses are percentages of totals.

^bNC = not classified, see text.

Table 40. Agent Orange Exposure Opportunity Indices: Cross-Classification of Index Based on Information Obtained from Military Records and Index Based on Information Obtained from Fathers' Interviews^a

Numbers of Fathers

Records-Based Index	Index Based on Interview Information						Totals
	1	2	3	4	5	NC ^b	
1	123	25	13	3	0	32	193
2	19	38	19	5	1	9	91
3	7	15	34	17	9	6	83
4	3	7	15	15	8	10	53
5	3	3	14	21	15	11	67
NC	43	28	25	15	7	54	172
Totals	198	116	120	76	40	122	672

Percentage Distribution of Fathers^c

Records-Based Index	Index Based on Interview Information						Totals
	1	2	3	4	5		
1	28.5	5.8	3.0	0.7	0.0		38.0
2	4.4	8.8	4.4	1.2	0.2		19.0
3	1.6	3.5	7.9	3.9	2.1		19.0
4	0.7	1.6	3.5	3.5	1.9		11.1
5	0.7	0.7	3.2	4.9	3.5		13.0
Totals	35.9	20.4	22.0	14.1	7.6		100.0

^aCase and control groups combined. See text for description of indices.

^bNC = not classified, see text.

^cPercentages of total number classified on both indices (n=432).

Table 41. Agent Orange Exposure Status According to Responses of Fathers, by Classification on Agent Orange Exposure Opportunity Indices^a

Index Score	Agent Orange Exposure Status		
	Yes	DK ^b	No
Index According to Information Obtained During Interviews			
1	31 (19.3)	35 (22.9)	132 (36.9)
2	26 (16.1)	23 (15.0)	67 (18.7)
3	31 (19.3)	30 (19.6)	59 (16.5)
4	27 (16.8)	30 (19.6)	19 (5.3)
5	17 (10.6)	11 (7.2)	12 (3.4)
NC ^c	29 (18.0)	24 (15.7)	69 (19.3)
Total	161 (100.0)	153 (100.0)	358 (100.0)
Index According to Information Contained in Military Records			
1	30 (18.6)	50 (32.7)	116 (32.4)
2	23 (14.3)	23 (15.0)	45 (12.6)
3	28 (17.4)	21 (13.7)	39 (10.9)
4	25 (15.5)	14 (9.2)	19 (5.3)
5	19 (11.8)	16 (10.5)	32 (8.9)
NC	36 (22.4)	29 (19.0)	107 (29.9)
Total	161 (100.0)	153 (100.0)	358 (100.0)

^aCase and control groups combined. Figures in parentheses are percentages of totals.

^bDK = don't know.

^cNC = not classified, see text.

Table 42. Were Case Group Index Babies Born with Birth Defects? Opinion of Mother, by Category and Type of Defect According to MACDP^a

Type of Defect		Number of Mothers	Baby Have Defect?	
Code	Defect Description		No	Yes
CATEGORY 1 DEFECTS:^b				
7400	ANENCEPHALUS	145	4 (2.8)	141 (97.2)
7410	SPINA BIFIDA WITH HYDRO	122	0 (0.0)	122 (100.0)
7419	SPINA BIFIDA W/OUT HYDRO	84	1 (1.2)	83 (98.8)
7420	HYDROCEPHALUS	216	20 (9.3)	196 (90.7)
7430	ENCEPHALOCELE	41	4 (9.8)	37 (90.2)
7431	MICROCEPHALUS	89	8 (9.0)	81 (91.0)
7434	NEUROFIBROMATOSIS	6	2 (33.3)	4 (66.7)
7440	ANOPHTHALMOS	16	2 (12.5)	14 (87.5)
7441	MICROPHTHALMOS	45	1 (2.2)	44 (97.8)
7442	BUPHTHALMOS	8	0 (0.0)	8 (100.0)
7443	CONGENITAL CATARACT	44	3 (6.8)	41 (93.2)
7444	COLOBOMA	16	0 (0.0)	16 (100.0)
7445	ANIRIDIA	3	0 (0.0)	3 (100.0)
7450	ANOM EAR-IMPAIR HEARING	30	2 (6.7)	28 (93.3)
7460	COMMON TRUNCUS	24	0 (0.0)	24 (100.0)
7461	TRANSPOS GREAT VESSELS	94	0 (0.0)	94 (100.0)
7462	TETRALOGY OF FALLOT	60	1 (1.7)	59 (98.3)
7463	VENTRICULAR SEPTAL DEFECT	413	31 (7.5)	382 (92.5)
7464	ATRIAL SEPTAL DEFECT	179	6 (3.4)	173 (96.6)
7465	OST ATRIOVENTRIC COMMUNE	38	0 (0.0)	38 (100.0)
7466	ANOMALIES OF HEART VALVES	163	1 (0.6)	162 (99.4)
7467	FIBROELASTOSIS CORDIS	6	0 (0.0)	6 (100.0)
7470	PATENT DUCTUS ARTERIOSUS	392	39 (9.9)	353 (90.1)
7471	COARCTATION OF AORTA	76	1 (1.3)	75 (98.7)
7472	OTHER ANOMALIES OF AORTA	63	1 (1.6)	62 (98.4)
7473	STEN ATRES PULMONARY ART	88	2 (2.3)	86 (97.7)
7474	ANOM GREAT VEINS	39	0 (0.0)	39 (100.0)
7480	CHOANAL ATRESIA	25	1 (4.0)	24 (96.0)
7484	CONGENITAL CYSTIC LUNG	5	1 (20.0)	4 (80.0)
7485	AGENESIS OF LUNG	7	0 (0.0)	7 (100.0)
7490	CLEFT PALATE	120	4 (3.3)	116 (96.7)
7491	CLEFT LIP	84	1 (1.2)	83 (98.8)
7492	CLEFT PALATE + CLEFT LIP	148	2 (1.4)	146 (98.6)
7501	PYLORIC STENOSIS	322	40 (12.4)	282 (87.6)
7502	TRACHEO-ESOPH FIST ATRES	52	1 (1.9)	51 (98.1)
7511	ATRES STEN SMALL INTEST	75	0 (0.0)	75 (100.0)
7512	ATRES STEN RECT ANUS	90	4 (4.4)	86 (95.6)
7513	HIRSCHSPRUNG'S DISEASE	40	3 (7.5)	37 (92.5)
7514	ANOM INTEST FIXATION	44	1 (2.3)	43 (97.7)
7516	ANOM GALL-BLAD,BILE,LIVER	69	5 (7.2)	64 (92.8)
7517	ANOM PANCREAS	8	0 (0.0)	8 (100.0)
7520	INDETERMINATE SEX	5	0 (0.0)	5 (100.0)
7522	HYPOSPADIAS	589	176 (29.9)	413 (70.1)
7523	EPISPADIAS	17	8 (47.1)	9 (52.9)
7525	ANOM OVARY,FALLOP,UTERUS	16	0 (0.0)	16 (100.0)
7526	ANOM VAGINA,EXT FEM GENIT	38	12 (31.6)	26 (68.4)
7527	PSEUDOHERMAPHRODITISM	28	2 (7.1)	26 (92.9)
7530	RENAL AGENESIS	59	2 (3.4)	57 (96.6)
7531	CYSTIC KIDNEY DISEASE	50	1 (2.0)	49 (98.0)

Table 42. Were Case Group Index Babies Born with Birth Defects? Opinion of Mother, by Category and Type of Defect According to MACDP^a — Continued

Type of Defect		Number of Mothers	Baby Have Defect?	
Code	Defect Description		No	Yes
CATEGORY 1 DEFECTS (Continued):^b				
7532	OBSTRUCT DEF URIN TRACT	89	3 (3.4)	86 (96.6)
7535	EXSTROPHY URIN BLADDER	9	0 (0.0)	9 (100.0)
7536	ATRES STEN URETHRA, BLAD	51	8 (15.7)	43 (84.3)
7540	CLUBFOOT	875	256 (29.3)	619 (70.7)
7552	REDUCT DEF UPPER LIMB	115	2 (1.7)	113 (98.3)
7553	REDUCT DEF LOWER LIMB	45	0 (0.0)	45 (100.0)
7554	REDUCT DEF UNSPEC LIMB	1	0 (0.0)	1 (100.0)
7558	GEN FLEXION CONTRACTURE	27	1 (3.7)	26 (96.3)
7564	CHONDRODYSTROPHY	14	0 (0.0)	14 (100.0)
7565	OSTEOGENESIS IMPERFECTA	7	0 (0.0)	7 (100.0)
7570	HEREDITARY OEDEMA OF LEGS	3	1 (33.3)	2 (66.7)
7573	SPEC ANOM HAIR	13	2 (15.4)	11 (84.6)
7574	SPEC ANOM NAILS	17	3 (17.6)	14 (82.4)
7580	ANOMALIES OF SPLEEN	43	7 (16.3)	36 (83.7)
7581	ANOM ADRENAL GLAND	6	0 (0.0)	6 (100.0)
7582	ANOM THYROID GLAND	25	4 (16.0)	21 (84.0)
7583	ANOM OTHER ENDOCRINE	14	1 (7.1)	13 (92.9)
7590	SITUS INVERSUS	14	3 (21.4)	11 (78.6)
7591	CONJOINED TWINS	5	0 (0.0)	5 (100.0)
7592	OTH FORM MONSTER	5	0 (0.0)	5 (100.0)
7593	DOWN'S DISEASE	219	5 (2.3)	214 (97.7)
7594	OTH SYND AUTOSOMAL ABNORM	47	2 (4.3)	45 (95.7)
7596	TUBEROUS SCLEROSIS	1	0 (0.0)	1 (100.0)
7598	OTH SPEC SYND	84	6 (7.1)	78 (92.9)
7599	MULT CONGEN ANOM UNSPEC	3	0 (0.0)	3 (100.0)
S603	DIAPHRAGMATIC HERNIA	76	7 (9.2)	69 (90.8)
S606	OMPHALOCELE	112	1 (0.9)	111 (99.1)
S621	OTHER NEOPLASM	91	21 (23.1)	70 (76.9)
S702	CYTOMEGALOVIRUS	10	0 (0.0)	10 (100.0)
S704	HERPES SIMPLEX	11	0 (0.0)	11 (100.0)
S705	SYPHILIS	8	4 (50.0)	4 (50.0)
CATEGORY 2 DEFECTS:^b				
7432	OTH SPEC ANOMALIES BRAIN	49	3 (6.1)	46 (93.9)
7433	OTH SPEC ANOM SPINAL CORD	6	0 (0.0)	6 (100.0)
7438	OTH ANOM OF NERVOUS SYS	4	0 (0.0)	4 (100.0)
7448	OTH SPEC ANOM OF EYE	91	1 (1.1)	90 (98.9)
7452	OTH SPEC ANOM OF EAR	187	4 (2.1)	183 (97.9)
7458	OTH SPEC ANOM FACE, NECK	19	2 (10.5)	17 (89.5)
7468	OTH SPEC ANOM HEART	215	12 (5.6)	203 (94.4)
7469	UNSPEC ANOM HEART	81	6 (7.4)	75 (92.6)
7476	OTH ANOM PERIPH VASC SYS	33	0 (0.0)	33 (100.0)
7478	OTH SPEC ANOM CIRC SYS	4	0 (0.0)	4 (100.0)
7481	OTH ANOM NOSE	27	2 (7.4)	25 (92.6)
7483	OTH ANOM LARYN, TRACH, BRON	15	0 (0.0)	15 (100.0)
7486	OTH ANOM LUNG	55	1 (1.8)	54 (98.2)
7488	OTH SPEC ANOM RESP SYS	2	0 (0.0)	2 (100.0)
7493	ANOM JAW	108	4 (3.7)	104 (96.3)
7500	ANOMALIES OF TONGUE	26	0 (0.0)	26 (100.0)

Table 42. Were Case Group Index Babies Born with Birth Defects? Opinion of Mother, by Category and Type of Defect According to MACDP^a — Continued

Type of Defect		Number of Mothers	Baby Have Defect?	
			No	Yes
CATEGORY 2 DEFECTS (Continued):^b				
7508	OTH SPEC ANOM UP ALIMENT	51	3 (5.9)	48 (94.1)
7515	OTH ANOM INTEST	29	3 (10.3)	26 (89.7)
7528	OTH SPEC ANOM GENITAL	78	7 (9.0)	71 (91.0)
7533	OTH SPEC ANOM KIDNEY	26	1 (3.8)	25 (96.2)
7534	OTH SPEC ANOM URETER	23	2 (8.7)	21 (91.3)
7538	OTH SPEC ANOM BLAD URETH	27	0 (0.0)	27 (100.0)
7551	SYNDACTYLY	67	2 (3.0)	65 (97.0)
7555	OTH ANOM UPPER LIMB	134	3 (2.2)	131 (97.8)
7556	DISLOCATION OF HIP	67	4 (6.0)	63 (94.0)
7557	OTH ANOM LOWER LIMB	123	9 (7.3)	114 (92.7)
7559	OTH UNSPEC LIMB	6	0 (0.0)	6 (100.0)
7560	ANOM SKULL,FACE BONES	127	10 (7.9)	117 (92.1)
7561	ANOM SPINE	69	3 (4.3)	66 (95.7)
7563	OTH ANOM RIBS STERNUM	44	0 (0.0)	44 (100.0)
7566	OTH GEN ANOM SKELETON	2	0 (0.0)	2 (100.0)
7568	OTH SPEC ANOM MUSC,TEND	34	2 (5.9)	32 (94.1)
7572	OTH SPEC ANOM SKIN	79	8 (10.1)	71 (89.9)
7595	SYND SEX CHROM ABNORM	14	2 (14.3)	12 (85.7)
S605	OTH DEF ABDOMINAL CAVITY	1	0 (0.0)	1 (100.0)
CATEGORY 3 DEFECTS:^b				
7439	UNSPEC ANOM OF CNS	3	0 (0.0)	3 (100.0)
7449	UNSPEC ANOM OF EYE	5	0 (0.0)	5 (100.0)
7451	ACCESSORY AURICLE	41	4 (9.8)	37 (90.2)
7453	UNSPEC ANOM OF EAR	12	3 (25.0)	9 (75.0)
7454	BRANCH CLEFT CYST FIST	10	2 (20.0)	8 (80.0)
7455	WEBBING OF NECK	23	1 (4.3)	22 (95.7)
7459	UNSPEC ANOM FACE,NECK	3	0 (0.0)	3 (100.0)
7475	ABS HYPO UMBILICAL ARTERY	37	2 (5.4)	35 (94.6)
7479	UNSPEC ANOM CIRC SYS	1	0 (0.0)	1 (100.0)
7482	WEB OF LARYNX	1	0 (0.0)	1 (100.0)
7494	ANOM UVULA	4	0 (0.0)	4 (100.0)
7509	UNSPEC ANOM UP ALIMENT	1	0 (0.0)	1 (100.0)
7510	MECKEL'S DIVERTICULUM	13	0 (0.0)	13 (100.0)
7518	OTH SPEC ANOM DIGEST SYS	2	0 (0.0)	2 (100.0)
7521	UNDESCENDED TESTICLE	120	7 (5.8)	113 (94.2)
7524	CONGENITAL HYDROCELE	58	13 (22.4)	45 (77.6)
7529	UNSPEC ANOM GENITAL	5	0 (0.0)	5 (100.0)
7539	UNSPEC ANOM URIN SYS	3	0 (0.0)	3 (100.0)
7550	POLYDACTYLY	86	10 (11.6)	76 (88.4)
7562	CERVICAL RIB	2	1 (50.0)	1 (50.0)
7571	PIGMENTED NAEVUS	8	3 (37.5)	5 (62.5)
7579	UNSPEC ANOM SKIN,HAIR,NAIL	1	0 (0.0)	1 (100.0)
S600	INGUINAL HERNIA	92	9 (9.8)	83 (90.2)
S602	UMBILICAL HERNIA	47	8 (17.0)	39 (83.0)
S604	OTH UNSPEC HERNIAS	8	1 (12.5)	7 (87.5)
S610	DIS AMINO ACID PROT METAB	2	0 (0.0)	2 (100.0)
S611	DIS CARBOHYD METAB	3	0 (0.0)	3 (100.0)
S613	DIS STEROID METAB	5	0 (0.0)	5 (100.0)

Table 42. Were Case Group Index Babies Born with Birth Defects? Opinion of Mother, by Category and Type of Defect According to MACDP^a – Continued

Type of Defect		Number of Mothers	Baby Have Defect?	
Code	Defect Description		No	Yes
CATEGORY 3 DEFECTS (Continued):^b				
S615	DIS METAB MINERALS	1	0 (0.0)	1 (100.0)
S617	DIS RENAL TRANSPORT	1	0 (0.0)	1 (100.0)
S618	DIS EXOCRINE GLANDS	6	0 (0.0)	6 (100.0)
S619	OTH UNSPEC DIS METAB	2	0 (0.0)	2 (100.0)
S620	HEMANGIOMA LYMPHANGIOMA	47	8 (17.0)	39 (83.0)
S700	UNSPEC TORCH INFECT	5	0 (0.0)	5 (100.0)

^aAnswer of mothers to question "Did the baby have a birth defect or health problem at birth or diagnosed during the first year of life?" Figures in parentheses are percentages of total mothers.

^bSee text for definition of defect categories.

Table 43. Were Control Group Index Babies Born with Birth Defects? Opinion of Mother, by Type of Defect^a

Code	Defect Description ^c	Number of Babies
CATEGORY 1 DEFECTS:^b		
7463	VENTRICULAR SEPTAL DEFECT	4
7464	ATRIAL SEPTAL DEFECT	4
7466	ANOMALIES OF HEART VALVES	1
7490	CLEFT PALATE	1
7501	PYLORIC STENOSIS	7
7513	HIRSCHSPRUNG'S DISEASE	1
7540	CLUBFOOT	17
7558	GEN FLEXION CONTRACTURE	1
7574	SPEC ANOM NAILS	1
S621	OTHER NEOPLASM	2
S704	HERPES SIMPLEX	1
CATEGORY 2 DEFECTS:		
7448	OTH SPEC ANOM OF EYE	1
7468	OTH SPEC ANOM HEART	1
7469	UNSPEC ANOM HEART ^d	43
7533	OTH SPEC ANOM KIDNEY	1
7534	OTH SPEC ANOM URETER	2
7551	SYNDACTYLY	1
7555	OTH ANOM UPPER LIMB	1
7556	DISLOCATION OF HIP	4
7563	OTH ANOM RIBS STERNUM	3
7572	OTH SPEC ANOM SKIN	1
7595	SYND SEX CHROM ABNORM	1
CATEGORY 3 DEFECTS:		
7449	UNSPEC ANOM OF EYE	1
7453	UNSPEC ANOM OF EAR	1
7550	POLYDACTYLY	3
S610	DIS AMINO ACID PROT METAB	1
S618	DIS EXOCRINE GLANDS	1

^aDefects which, if confirmed, would make a baby eligible for registry by MACDP, see text; total number of babies = 105.

^bSee text for definition of defect categories.

^cDefect description which would be used by MACDP, not necessarily mothers' verbatim descriptions.

^dIncludes heart problems described by mothers as "murmurs."

Table 44. Veteran and Vietnam Veteran Status of Fathers According to Responses of Case Group Mothers with Fully Completed Interviews, by Opinion of Mother as to the Presence or Absence of Birth Defects in the Index Baby and Race^a

Race: White

Defect Present	Veteran Status			Total
	Yes	No	DK ^b	
Yes	1,639 (49.4)	1,667 (50.2)	14 (0.5)	3,320 (100.0)
No	212 (43.0)	281 (57.0)	0 (0.0)	493 (100.0)

Defect Present	Vietnam Veteran Status			Total
	Yes	No	NC ^c	
Yes	306 (9.2)	2,950 (88.9)	64 (1.9)	3,320 (100.0)
No	45 (9.1)	441 (89.5)	7 (1.4)	493 (100.0)

Race: Other

Defect Present	Veteran Status			Total
	Yes	No	DK ^b	
Yes	282 (31.1)	594 (65.4)	32 (3.5)	908 (100.0)
No	50 (24.0)	155 (74.5)	3 (1.4)	208 (100.0)

Defect Present	Vietnam Veteran Status			Total
	Yes	No	NC ^c	
Yes	67 (7.4)	767 (84.5)	74 (8.1)	908 (100.0)
No	8 (3.8)	189 (90.9)	11 (5.3)	208 (100.0)

^aFigures in parentheses are percentages of totals.

^bDK = don't know.

^cNC = not classified, see text.

Table 45. Veteran and Vietnam Veteran Status of Fathers According to Responses of Control Group Mothers with Fully Completed Interviews, by Opinion of Mother as to the Presence or Absence of Birth Defects in the Index Baby, Study Eligibility of Defect, and Race^a

Race: White

	Defect Present	Veteran Status			Total
		Yes	No	DK ^b	
All Defect Types	Yes	40 (50.0)	39 (48.8)	1 (1.3)	80 (100.0)
	No	1,115 (50.2)	1,102 (49.6)	4 (0.2)	2,221 (100.0)
Eligible Defects ^c	Yes	19 (51.4)	17 (45.9)	1 (2.7)	37 (100.0)
	No	1,136 (50.2)	1,124 (49.6)	4 (0.2)	2,264 (100.0)

	Defect Present	Vietnam Veteran Status			Total
		Yes	No	NC ^d	
All Defect Types	Yes	6 (7.5)	69 (86.3)	5 (6.3)	80 (100.0)
	No	214 (9.6)	1,968 (88.6)	39 (1.8)	2,221 (100.0)
Eligible Defects	Yes	3 (7.7)	32 (87.2)	2 (5.1)	37 (100.0)
	No	217 (9.6)	2,005 (88.6)	42 (1.9)	2,264 (100.0)

Race: Other

	Defect Present	Veteran Status			Total
		Yes	No	DK ^b	
All Defect Types	Yes	10 (40.0)	15 (60.0)	0 (0.0)	25 (100.0)
	No	217 (30.9)	475 (67.6)	11 (1.6)	703 (100.0)
Eligible Defects	Yes	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
	No	227 (31.2)	490 (67.3)	11 (1.5)	728 (100.0)

	Defect Present	Vietnam Veteran Status			Total
		Yes	No	NC ^d	
All Defect Types	Yes	2 (8.0)	21 (84.0)	2 (8.0)	25 (100.0)
	No	45 (6.4)	616 (87.6)	42 (6.0)	703 (100.0)
Eligible Defects	Yes	0	0	0	0
	No	47 (6.5)	637 (87.5)	44 (6.0)	728 (100.0)

^aFigures in parentheses are percentages of totals.

^bDK = don't know.

^cDefects which, if confirmed, would qualify a baby as a study case.

^dNC = not classified, see text.

Table 46. Maternal Age and Years of Maternal Education at the Time of Index Births According to Responses of Mothers with Fully Completed Interviews, by Race^a

Maternal Age	Years of Education			Total
	-11	12-15	16-	
Race: White				
-19	259 (52.5)	226 (45.8)	8 (1.6)	493 (100.0)
20-	332 (18.3)	1,350 (74.3)	135 (7.4)	1,817 (100.0)
25-	182 (8.0)	1,448 (63.6)	646 (28.4)	2,276 (100.0)
30-	94 (8.1)	631 (54.4)	434 (37.4)	1,159 (100.0)
35+	60 (17.6)	177 (52.1)	103 (30.3)	340 (100.0)
Total	927 (15.2)	3,832 (63.0)	1,326 (21.8)	6,085 (100.0)
Race: Other				
-19	140 (36.6)	237 (61.9)	6 (1.6)	383 (100.0)
20-	114 (18.9)	460 (76.2)	30 (5.0)	604 (100.0)
25-	75 (16.6)	300 (66.2)	78 (17.2)	453 (100.0)
30-	42 (17.1)	140 (57.1)	63 (25.7)	245 (100.0)
35+	39 (36.4)	55 (51.4)	13 (12.1)	107 (100.0)
Total	410 (22.9)	1,192 (66.5)	190 (10.6)	1,792 (100.0)

^aCase and control group mothers combined. Figures in parentheses are percentages of row totals. Eighty-one mothers with uncertain education, age, or father's veteran status excluded from tabulation.

Table 47. Veteran Status of Fathers and Maternal Age at the Time of Index Births According to Responses of Mothers with Fully Completed Interviews, by Race^a

Maternal Age	Veteran Status		Total
	Yes	No	
Race: White			
-19	119 (24.1)	374 (75.9)	493 (100.0)
20-	698 (38.4)	1,119 (61.6)	1,817 (100.0)
25-	1,219 (53.5)	1,057 (46.5)	2,276 (100.0)
30-	718 (61.9)	441 (38.1)	1,159 (100.0)
35+	245 (72.3)	95 (27.7)	340 (100.0)
Total	2,999 (49.3)	3,086 (50.7)	6,085 (100.0)
Race: Other			
-19	79 (20.6)	304 (79.4)	383 (100.0)
20-	167 (27.6)	437 (72.4)	604 (100.0)
25-	154 (34.0)	299 (66.0)	453 (100.0)
30-	112 (45.7)	133 (54.3)	245 (100.0)
35+	44 (41.1)	63 (58.9)	107 (100.0)
Total	556 (31.0)	1,236 (69.0)	1,792 (100.0)

^aCase and control groups combined. Figures in parentheses are percentages of row totals. Eighty-one mothers with uncertain education, age, or father's veteran status excluded from tabulation.

Table 48. Veteran Status of Fathers and Years of Maternal Education According to Responses of Mothers with Fully Completed Interviews, by Race^a

Veteran Status	Years of Education			Total
	-11	12-15	16-	
Race: White				
Yes	312 (10.4)	1,951 (65.0)	736 (24.5)	2,999 (100.0)
No	615 (19.9)	1,881 (61.0)	590 (19.1)	3,086 (100.0)
Total	927 (15.2)	3,832 (63.0)	1,326 (21.8)	6,085 (100.0)
Race: Other:				
Yes	91 (16.4)	375 (67.4)	90 (16.2)	556 (100.0)
No	319 (25.8)	817 (66.1)	100 (8.1)	1,236 (100.0)
Total	410 (22.9)	1,192 (66.5)	190 (10.6)	1,792 (100.0)

^aCase and control group mothers combined. Figures in parentheses are percentages of row totals. Eighty-one mothers with uncertain education, age, or father's veteran status excluded from tabulation.

Table 49. Maternal Age and Years of Maternal Education at Time of Index Birth and Mothers' Opinions as to Presence or Absence of Birth Defect in Index Baby According to Responses of White Race Case Group Mothers with Fully Completed Interviews^a

Maternal Age	Mother's Opinion		Total
	Yes	No	
-19	262 (83.4)	52 (16.6)	314 (100.0)
20-	981 (85.8)	163 (14.2)	1,144 (100.0)
25-	1,219 (87.8)	170 (12.2)	1,389 (100.0)
30-	636 (88.1)	86 (11.9)	722 (100.0)
35+	203 (90.6)	21 (9.4)	224 (100.0)
Total	3,301 (87.0)	492 (13.0)	3,793 (100.0)

Years of Education	Mother's Opinion		Total
	Yes	No	
-11	514 (85.4)	88 (14.6)	602 (100.0)
12-15	2,060 (87.0)	309 (13.0)	2,369 (100.0)
16-	727 (88.4)	95 (11.6)	822 (100.0)
Total	3,301 (87.0)	492 (13.0)	3,793 (100.0)

^aFigures in parentheses are percentages of row totals. Twenty mothers with uncertain education, age, or father's veteran status excluded from tabulation.

Table 50. Veteran Status of Fathers, Maternal Age at Time of Index Birth, and Mothers' Opinion as to Presence or Absence of Birth Defect According to Responses of White Race Case Group Mothers with Fully Completed Interviews^a

Maternal Age	Mother's Opinion	Veteran Status		Total
		Yes	No	
-19	Present	58 (22.1)	204 (77.9)	262 (100.0)
	Absent	8 (15.4)	44 (84.6)	52 (100.0)
20-	Present	371 (37.8)	610 (62.2)	981 (100.0)
	Absent	65 (39.9)	98 (60.1)	163 (100.0)
25-	Present	654 (53.7)	565 (46.3)	1,219 (100.0)
	Absent	74 (43.5)	96 (56.5)	170 (100.0)
30-	Present	403 (63.4)	233 (36.6)	636 (100.0)
	Absent	50 (58.1)	36 (41.9)	86 (100.0)
35+	Present	150 (73.9)	53 (26.1)	203 (100.0)
	Absent	14 (66.7)	7 (33.3)	21 (100.0)
Total	Present	1,636 (49.6)	1,665 (50.4)	3,301 (100.0)
	Absent	211 (42.9)	281 (57.1)	492 (100.0)

^aFigures in parentheses are percentages of row totals. Twenty mothers with uncertain education, age, or father's veteran status excluded from tabulation.

Table 51. Veteran Status of Fathers, Years of Maternal Education at Time of Index Birth, and Mothers' Opinion as to the Presence or Absence of Birth Defect According to Responses of White Race Case Group Mothers Aged 25-29 Years with Fully Completed Interviews^a

Years of Education	Mother's Opinion	Veteran Status		Total
		Yes	No	
-11	Present	41 (39.0)	65 (61.9)	106 (100.0)
	Absent	1 (7.1)	13 (92.9)	14 (100.0)
12-15	Present	427 (56.0)	336 (44.0)	763 (100.0)
	Absent	56 (49.1)	58 (50.9)	114 (100.0)
16-	Present	186 (53.1)	164 (46.9)	350 (100.0)
	Absent	17 (40.5)	25 (59.5)	42 (100.0)
Total	Present	654 (53.7)	565 (46.3)	1,219 (100.0)
	Absent	74 (43.5)	96 (56.5)	170 (100.0)

^aFigures in parentheses are percentages of row totals. Four mothers with uncertain education, age, or father's veteran status excluded from tabulation.

Table 52. Tests of Hypotheses — Basic Analyses^a

Defect Group/Hypothesis	Number of Respondents by "Exposure" Status				OR or Beta	Confidence Limits, 95%	
	Case		Control			Lower	Upper
	+	-	+	-			
ALL CASE BABIES							
Veteran Status	1,659	2,727	1,047	1,652	0.94	0.85	1.00
Vietnam Veteran Status	428	4,387	268	2,699	0.97	0.83	1.14
AO Exposure Opportunity Index 1	319	3,605	179	2,200	0.03	-0.04	0.10
AO Exposure Opportunity Index 2	346	3,605	202	2,200	0.04	-0.03	0.11
Self-Report AO Exposure 1	—	—	—	—	—	—	—
Self-Report AO Exposure 2	—	—	—	—	—	—	—
MULTIPLE DEFECTS							
Veteran Status	363	646	1,038	1,627	0.93	0.80	1.00
Vietnam Veteran Status	97	1,010	266	2,669	0.99	0.77	1.27
AO Exposure Opportunity Index 1	75	797	175	2,166	0.03	-0.07	0.14
AO Exposure Opportunity Index 2	79	797	197	2,166	0.06	-0.05	0.16
Self-Report AO Exposure 1	25	841	83	2,921	1.07	0.67	1.50
Self-Report AO Exposure 2	46	841	163	2,921	0.95	0.68	1.35
TOTAL NERVOUS SYSTEM DEFECTS							
Veteran Status	238	373	1,022	1,597	0.96	0.79	1.16
Vietnam Veteran Status	52	611	262	2,620	0.91	0.66	1.21
AO Exposure Opportunity Index 1	48	480	177	2,157	0.06	-0.05	0.18
AO Exposure Opportunity Index 2	47	480	198	2,157	0.07	-0.05	0.19
Self-Report AO Exposure 1	12	508	92	3,240	0.78	0.42	1.46
Self-Report AO Exposure 2	27	508	177	3,240	0.90	0.59	1.37
TOTAL EYE DEFECTS							
Veteran Status	32	72	835	1,265	0.71	0.46	1.11
Vietnam Veteran Status	9	104	225	2,123	0.91	0.45	1.84
AO Exposure Opportunity Index 1	7	84	146	1,708	-0.00	-0.28	0.27
AO Exposure Opportunity Index 2	6	84	158	1,708	-0.02	-0.31	0.27
Self-Report AO Exposure 1	1	86	81	2,867	0.42	0.06	3.00
Self-Report AO Exposure 2	5	86	161	2,876	1.00	0.39	2.82

^aKey to table headings (see text for further explanations):

- 1) See Table 7 for types of defects included in defect groupings.
- 2) Veteran Status — test of hypothesis that veterans have same risk as nonveterans (Vietnam veterans excluded); tests of hypotheses described below limited to veterans if odds ratio greater than 1.2 or less than 0.833 and statistically significant ($p < 0.05$).
- 3) Vietnam Veteran Status — test of hypothesis that Vietnam veterans have same risk as men who did not serve in Vietnam.
- 4) Agent Orange (AO) Exposure Opportunity Index 1 — index scores based on information contained in military records.
- 5) Agent Orange (AO) Exposure Opportunity Index 2 — index scores based on information obtained during interview.
- 6) Self-Report Agent Orange (AO) Exposure 1 — those who said "yes" to question about AO exposure considered exposed.
- 7) Self-Report Agent Orange (AO) Exposure 2 — those who said "yes" and "don't know" to question about AO exposure considered exposed.
- 8) Meaning of "Exposure Status" varies with hypothesis. For example, for Veteran Status hypothesis, + = veterans (Vietnam veterans excluded), - = nonveterans. For AO Exposure Opportunity Index hypotheses, + = all Vietnam veterans given any index score, - = fathers who are not Vietnam veterans.
- 9) Odds ratio (OR) or regression coefficient (Beta) — odds ratio for Veteran Status, Vietnam Veteran Status, and Self-Report AO Exposure hypotheses; Beta for logistic regressions on AO Exposure Opportunity indices.
- 10) Upper and Lower 95% confidence limits for odds ratio or Beta; underlined confidence limits highlight OR's significantly different from 1.0 or Beta's significantly different from 0.0 ($p < 0.05$).
- 11) Separate tests by race or period of birth indicate presence of significant ($p < 0.05$) interaction on race or period. Symbols signify the following with respect to periods of birth: @ = risk in 1st period significantly different from risk in 3rd period, # = risk in 2nd period significantly different from risk in 3rd period, \$ = 1st and 2nd period risk differ, % = 1st and 3rd periods and 2nd and 3rd periods significantly different.

Table 52. Tests of Hypotheses — Basic Analyses^a — Continued

Defect Group/Hypothesis	Number of Respondents by "Exposure" Status				OR or Beta	Confidence Limits, 95%	
	Case		Control			Lower	Upper
	+	-	+	-			
TOTAL CARDIOVASCULAR DEFECTS							
Veteran Status	312	616	1,032	1,620	0.91	0.77	1.07
Vietnam Veteran Status	84	928	261	2,656	0.92	0.71	1.20
AO Exposure Opportunity Index 1	64	726	176	2,159	0.01	-0.10	0.12
AO Exposure Opportunity Index 2	70	726	196	2,157	0.02	-0.10	0.13
Self-Report AO Exposure 1	21	783	85	2,967	0.97	0.59	1.59
Self-Report AO Exposure 2	39	783	168	2,967	0.89	0.62	1.29
COMPLEX CARDIOVASCULAR DEFECTS							
Veteran Status	150	263	994	1,540	0.97	0.77	1.21
Vietnam Veteran Status	30	413	253	2,537	0.69	0.46	1.03
AO Exposure Opportunity Index 1	22	326	166	2,040	-0.07	-0.24	0.10
AO Exposure Opportunity Index 2	22	326	185	2,038	-0.11	-0.30	0.07
Self-Report AO Exposure 1	6	345	93	3,197	0.55	0.24	1.29
Self-Report AO Exposure 2	13	345	180	3,197	0.65	0.36	1.16
TOTAL RESPIRATORY DEFECTS							
Veteran Status	14	18	568	753	1.00	0.48	2.07
Vietnam Veteran Status	3	32	161	1,363	0.87	0.26	2.92
AO Exposure Opportunity Index 1	2	29	108	1,144	-0.23	-0.94	0.48
AO Exposure Opportunity Index 2	4	29	125	1,179	0.06	-0.38	0.49
Self-Report AO Exposure 1	1	32	58	2,089	1.08	0.14	3.30
Self-Report AO Exposure 2	1	32	125	2,089	0.44	0.06	3.38
TOTAL GASTROINTESTINAL DEFECTS							
Veteran Status	392	521	1,030	1,613	1.07	0.92	1.26
Vietnam Veteran Status	95	913	265	2,651	0.98	0.76	1.26
AO Exposure Opportunity Index 1	65	798	176	2,152	0.02	-0.08	0.13
AO Exposure Opportunity Index 2	78	798	198	2,152	0.06	-0.04	0.16
Self-Report AO Exposure 1	25	838	78	2,909	1.09	0.69	1.74
Self-Report AO Exposure 2	49	838	152	2,909	1.09	0.78	1.52
TOTAL SEX ORGAN DEFECTS							
Veteran Status	216	407	1,027	1,615	0.81	0.67	0.98
Vietnam Veteran Status	50	217	253	990	0.92	0.65	1.30
AO Exposure Opportunity Index 1	43	191	163	852	0.09	-0.04	0.22
AO Exposure Opportunity Index 2	39	191	183	852	0.02	-0.12	0.17
Self-Report AO Exposure 1	15	223	79	1,352	1.16	0.65	2.07
Self-Report AO Exposure 2	22	223	162	1,361	0.81	0.50	1.30
TOTAL URINARY TRACT DEFECTS							
Veteran Status	80	116	976	1,519	1.05	0.77	1.44
Vietnam Veteran Status	18	196	249	2,514	0.93	0.56	1.55
AO Exposure Opportunity Index 1	12	162	164	2,026	-0.06	-0.29	0.18
AO Exposure Opportunity Index 2	12	162	183	2,026	-0.06	-0.29	0.18
Self-Report AO Exposure 1	1	166	94	3,305	0.21	0.03	1.51
Self-Report AO Exposure 2	9	166	181	3,325	0.98	0.49	1.97
TOTAL MUSCULOSKELETAL DEFECTS							
Veteran Status	347	577	1,036	1,630	0.90	0.77	1.06
Vietnam Veteran Status	90	924	263	2,671	0.98	0.76	1.27
AO Exposure Opportunity Index 1	65	762	174	2,168	0.01	-0.11	0.12
AO Exposure Opportunity Index 2	69	762	195	2,170	0.00	-0.11	0.11
Self-Report AO Exposure 1	24	799	82	2,958	1.06	0.66	1.69
Self-Report AO Exposure 2	45	799	159	2,958	1.04	0.73	1.47

Table 52. Tests of Hypotheses — Basic Analyses^a — Continued

Defect Group/Hypothesis	Number of Respondents by "Exposure" Status				OR or Beta	Confidence Limits, 95%	
	Case		Control			Lower	Upper
	+	-	+	-			
TOTAL ENDOCRINE DEFECTS							
Veteran Status	16	25	588	1,002	1.10	0.57	2.10
Vietnam Veteran Status	3	41	163	1,597	0.66	0.20	2.17
AO Exposure Opportunity Index 1	2	30	107	1,224	-0.13	-0.73	0.47
AO Exposure Opportunity Index 2	3	30	119	1,224	0.01	-0.47	0.49
Self-Report AO Exposure 1	0	32	53	2,110	—	—	—
Self-Report AO Exposure 2	1	32	109	2,110	0.57	0.08	4.23
AUTOSOMAL CHROMOSOME DEFECTS							
Veteran Status	108	129	992	1,515	1.29	0.97	1.77
Vietnam Veteran Status	20	237	254	2,527	0.81	0.50	1.37
AO Exposure Opportunity Index 1	15	207	174	2,089	-0.13	-0.35	0.09
AO Exposure Opportunity Index 2	16	207	192	2,089	-0.17	-0.41	0.06
Self-Report AO Exposure 1	5	215	97	3,375	0.75	0.30	1.87
Self-Report AO Exposure 2	8	215	190	3,380	0.64	0.31	1.33
DOMINANT MUTATIONS							
Veteran Status	6	13	491	687	0.62	0.22	1.73
Vietnam Veteran Status	0	19	121	1,178	—	—	—
AO Exposure Opportunity Index 1	0	11	71	756	—	—	—
AO Exposure Opportunity Index 2	0	11	64	756	—	—	—
Self-Report AO Exposure 1	0	11	40	1,324	—	—	—
Self-Report AO Exposure 2	1	11	81	1,324	1.44	0.18	11.37
ANENCEPHALUS AND SPINA BIFIDA							
Veteran Status	144	168	978	1,496	1.13	0.88	1.48
Vietnam Veteran Status	31	312	256	2,524	0.99	0.66	1.47
AO Exposure Opportunity Index 1	28	272	173	2,013	0.08	-0.06	0.23
AO Exposure Opportunity Index 2	26	272	192	2,013	0.11	-0.04	0.25
Self-Report AO Exposure 1	9	289	90	3,249	1.03	0.50	2.05
Self-Report AO Exposure 2	15	289	182	3,249	0.86	0.50	1.50
ANENCEPHALUS							
Veteran Status	56	74	906	1,395	0.99	0.68	1.44
Vietnam Veteran Status	12	130	244	2,317	0.89	0.48	1.68
AO Exposure Opportunity Index 1	8	116	166	1,877	-0.07	-0.35	0.20
AO Exposure Opportunity Index 2	7	116	185	1,877	-0.10	-0.40	0.19
Self-Report AO Exposure 1	3	122	85	3,179	0.80	0.25	2.64
Self-Report AO Exposure 2	4	122	170	3,179	0.56	0.20	1.55
SPINA BIFIDA							
Veteran Status	88	94	947	1,437	1.25	0.91	1.71
Vietnam Veteran Status	19	182	247	2,434	1.05	0.63	1.73
AO Exposure Opportunity Index 1	20	156	169	1,965	0.16	0.00	0.33
AO Exposure Opportunity Index 2	19	156	186	1,965	0.20	0.04	0.37
Self-Report AO Exposure 1	6	167	90	3,252	1.19	0.51	2.82
Self-Report AO Exposure 2	11	167	182	3,252	1.09	0.58	2.07
HYDROCEPHALUS							
Veteran Status	57	138	1,005	1,569	0.68	0.48	0.95
Vietnam Veteran Status	11	57	187	776	0.85	0.43	1.73
AO Exposure Opportunity Index 1	11	52	151	784	0.04	-0.19	0.23
AO Exposure Opportunity Index 2	11	52	162	784	0.04	-0.19	0.23
Self-Report AO Exposure 1	1	60	83	1,385	0.25	0.03	1.85
Self-Report AO Exposure 2	5	60	163	1,395	0.68	0.27	1.74

Table 52. Tests of Hypotheses -- Basic Analyses^a -- Continued

Defect Group/Hypothesis	Number of Respondents by "Exposure" Status				OR or Beta	Confidence Limits, 95%	
	Case		Control			Lower	Upper
	+	-	+	-			
ENCEPHALOCELE							
Veteran Status	10	25	525	872	0.59	0.28	1.28
Vietnam Veteran Status	4	35	171	1,584	1.21	0.42	3.51
AO Exposure Opportunity Index 1	4	27	114	1,139	0.19	-0.14	0.53
AO Exposure Opportunity Index 2	4	27	126	1,139	0.15	-0.20	0.50
Self-Report AO Exposure 1	0	28	53	1,920	—	—	—
Self-Report AO Exposure 2	3	28	115	2,009	1.88	0.55	6.38
MICROCEPHALUS							
Veteran Status	31	47	713	1,131	1.37	0.83	2.25
Vietnam Veteran Status	7	78	196	1,963	1.14	0.51	2.54
AO Exposure Opportunity Index 1	7	51	129	1,573	0.15	-0.14	0.44
AO Exposure Opportunity Index 2	8	51	144	1,573	0.15	-0.16	0.46
Self-Report AO Exposure 1	3	53	66	2,537	2.15	0.65	7.14
Self-Report AO Exposure 2	6	53	140	2,655	1.93	0.79	4.67
NEUROFIBROMATOSIS							
Veteran Status	1	4	134	367	0.56	0.06	5.45
Vietnam Veteran Status	0	5	40	501	—	—	—
AO Exposure Opportunity Index 1	0	6	23	353	—	—	—
AO Exposure Opportunity Index 2	0	6	30	353	—	—	—
Self-Report AO Exposure 1	0	6	14	538	—	—	—
Self-Report AO Exposure 2	0	6	30	538	—	—	—
ANOPHTHALMOS							
Veteran Status	2	13	328	380	0.16	0.03	0.72
Vietnam Veteran Status	1	2	14	70	2.55	0.21	30.14
AO Exposure Opportunity Index 1	0	3	5	58	—	—	—
AO Exposure Opportunity Index 2	0	3	7	58	—	—	—
Self-Report AO Exposure 1	0	4	7	72	—	—	—
Self-Report AO Exposure 2	0	4	12	72	—	—	—
MICROPHTHALMOS							
Veteran Status	15	26	564	934	1.08	0.55	2.13
Vietnam Veteran Status	3	41	154	1,500	0.76	0.23	2.54
AO Exposure Opportunity Index 1	2	30	100	1,062	-0.47	-1.44	0.51
AO Exposure Opportunity Index 2	2	30	104	1,062	-0.12	-0.70	0.47
Self-Report AO Exposure 1	0	30	56	1,843	—	—	—
Self-Report AO Exposure 2	2	30	107	1,845	1.13	0.25	5.02
BUPHTHALMOS							
Veteran Status	4	3	87	185	1.86	0.37	9.35
Vietnam Veteran Status	1	7	27	293	1.60	0.18	14.00
AO Exposure Opportunity Index 1	0	6	13	155	—	—	—
AO Exposure Opportunity Index 2	0	6	16	155	—	—	—
Self-Report AO Exposure 1	0	6	10	261	—	—	—
Self-Report AO Exposure 2	0	6	20	261	—	—	—
CONGENITAL CATARACT							
Veteran Status	10	28	497	895	0.79	0.37	1.69
Vietnam Veteran Status	4	38	146	1,534	1.20	0.41	3.51
AO Exposure Opportunity Index 1	3	29	100	1,212	0.11	-0.34	0.55
AO Exposure Opportunity Index 2	2	29	92	1,091	-0.21	-0.85	0.44
Self-Report AO Exposure 1	0	30	52	2,059	—	—	—
Self-Report AO Exposure 2	2	30	108	2,081	1.12	0.25	1.94

Table 52. Tests of Hypotheses — Basic Analyses^a — Continued

Defect Group/Hypothesis	Number of Respondents by "Exposure" Status				OR or Beta	Confidence Limits, 95%	
	Case		Control			Lower	Upper
	+	-	+	-			
COLOBOMA							
Veteran Status	5	9	425	612	0.75	0.25	2.31
Vietnam Veteran Status	2	14	109	1,037	1.35	0.30	6.27
AO Exposure Opportunity Index 1	3	11	75	845	0.24	-0.17	0.36
AO Exposure Opportunity Index 2	3	11	78	845	0.42	0.04	0.30
Self-Report AO Exposure 1	1	11	33	1,424	3.45	0.42	28.10
Self-Report AO Exposure 2	3	11	76	1,431	4.22	1.10	16.10
ANIRIDIA							
Veteran Status	1	2	132	155	0.45	0.04	5.47
Vietnam Veteran Status	0	3	31	287	—	—	—
AO Exposure Opportunity Index 1	0	3	22	270	—	—	—
AO Exposure Opportunity Index 2	0	3	23	270	—	—	—
Self-Report AO Exposure 1	0	3	11	446	—	—	—
Self-Report AO Exposure 2	0	3	28	446	—	—	—
ANOM EAR WITH IMPAIRED HEARING							
Veteran Status	13	14	461	753	1.40	0.63	3.12
Vietnam Veteran Status	4	27	102	1,276	1.54	0.52	4.58
AO Exposure Opportunity Index 1	1	24	77	874	-0.70	-2.11	0.70
AO Exposure Opportunity Index 2	1	24	91	874	-0.81	-2.31	0.69
Self-Report AO Exposure 1	0	24	41	1,493	—	—	—
Self-Report AO Exposure 2	1	24	73	1,493	0.81	0.11	6.11
CONUS ARTERIOSUS DEFECTS							
Veteran Status	49	93	932	1,466	0.79	0.54	1.14
Vietnam Veteran Status	13	142	241	2,398	0.81	0.45	1.47
AO Exposure Opportunity Index 1	7	116	157	1,835	-0.10	-0.38	0.19
AO Exposure Opportunity Index 2	10	116	173	1,835	-0.01	-0.26	0.24
Self-Report AO Exposure 1	4	124	85	3,082	1.08	0.38	3.14
Self-Report AO Exposure 2	6	124	168	3,082	0.86	0.37	2.10
COMMON TRUNCUS							
Veteran Status	7	15	438	673	0.59	0.22	1.60
Vietnam Veteran Status	2	22	128	1,179	0.67	0.15	3.15
AO Exposure Opportunity Index 1	2	14	72	808	0.10	-0.49	0.70
AO Exposure Opportunity Index 2	3	14	76	808	0.22	-0.30	0.73
Self-Report AO Exposure 1	0	16	33	1,427	—	—	—
Self-Report AO Exposure 2	1	16	79	1,427	1.34	0.17	10.41
TRANSPOSITION GREAT VESSELS							
Veteran Status	31	53	812	1,285	0.88	0.55	1.40
Vietnam Veteran Status	7	84	212	2,097	0.75	0.34	1.65
AO Exposure Opportunity Index 1	2	68	136	1,523	-0.38	-0.95	0.20
AO Exposure Opportunity Index 2	6	68	148	1,580	0.07	-0.21	0.36
Self-Report AO Exposure 1	3	71	71	2,679	1.49	0.45	4.50
Self-Report AO Exposure 2	4	71	146	2,679	0.99	0.35	2.78
TETRALOGY OF FALLOT							
Veteran Status	17	34	733	1,169	0.89	0.48	1.65
Vietnam Veteran Status	4	51	198	1,902	0.79	0.28	2.73
AO Exposure Opportunity Index 1	3	45	124	1,447	0.02	-0.37	0.41
AO Exposure Opportunity Index 2	1	45	133	1,447	-1.02	-2.55	0.51
Self-Report AO Exposure 1	1	48	67	2,446	0.61	0.08	4.68
Self-Report AO Exposure 2	1	48	133	2,446	0.36	0.05	2.72

Table 52. Tests of Hypotheses — Basic Analyses^a — Continued

Defect Group/Hypothesis	Number of Respondents by "Exposure" Status				OR or Beta	Confidence Limits, 95%	
	Case		Control			Lower	Upper
	+	-	+	-			
VENTRICULAR SEPTAL DEFECT							
Veteran Status	121	245	1,003	1,581	0.87	0.68	1.11
Vietnam Veteran Status	38	366	258	2,584	1.00 \$	\$0.70	1.44
01/68-04/72	8	62	43	705	1.85	0.82	4.18
05/72-08/76	10	121	116	859	0.63	0.32	1.26
09/76-12/80	20	183	99	1,020	1.11	0.66	1.84
AO Exposure Opportunity Index 1	29	282	172	2,123	0.05	-0.10	0.20
AO Exposure Opportunity Index 2	30	282	193	2,121	0.03 \$	-0.13	0.19
01/68-04/72	6	46	35	602	0.26	-0.05	0.56
05/72-08/76	9	90	88	693	-0.29	-0.68	0.09
09/76-12/80	15	146	70	826	0.09	-0.12	0.30
Self-Report AO Exposure 1	9	305	94	3,372	1.01	0.50	2.05
Self-Report AO Exposure 2	17	305	184	3,377	0.98 \$	0.58	1.65
01/68-04/72	5	48	43	948	2.53	0.95	6.72
05/72-08/76	5	101	87	1,162	0.58	0.23	1.47
09/76-12/80	7	156	54	1,267	1.00	0.44	2.24
SELECTED VSD							
Veteran Status	103	191	1,001	1,578	0.95	0.73	1.24
Vietnam Veteran Status	28	294	255	2,579	0.97 \$	0.64	1.47
01/68-04/72	8	57	40	700	2.26	1.00	5.10
05/72-08/76	6	102	116	859	0.46	0.19	1.08
09/76-12/80	14	135	99	1,020	1.09	0.60	1.97
AO Exposure Opportunity Index 1	21	227	171	2,104	0.02	-0.15	0.19
AO Exposure Opportunity Index 2	19	227	191	2,102	-0.07 \$	-0.28	0.13
01/68-04/72	6	44	35	602	0.26	-0.04	0.57
05/72-08/76	5	72	86	679	-0.47	-1.00	0.07
09/76-12/80	8	111	70	821	-0.09	-0.41	0.23
Self-Report AO Exposure 1	7	241	94	3,399	0.98	0.45	2.17
Self-Report AO Exposure 2	13	241	186	3,404	0.94 \$	0.52	1.68
01/68-04/72	5	46	43	950	2.70	1.01	7.18
05/72-08/76	3	80	88	1,154	0.43	0.13	1.39
09/76-12/80	5	115	55	1,300	0.94	0.37	2.41
ATRIAL SEPTAL DEFECT							
Veteran Status	50	113	874	1,354	0.82	0.57	1.17
Vietnam Veteran Status	13	163	224	2,228	0.84	0.47	1.53
AO Exposure Opportunity Index 1	10	132	136	1,696	0.05	-0.17	0.28
AO Exposure Opportunity Index 2	12	132	151	1,716	0.04	-0.19	0.27
Self-Report AO Exposure 1	1	142	76	2,846	0.24	0.03	1.77
Self-Report AO Exposure 2	5	142	158	2,864	0.64	0.26	1.60
OSTIUM ATRIOVENTRIC COMMUNE							
Veteran Status	11	21	490	837	0.87	0.41	1.87
Vietnam Veteran Status	3	32	147	1,327	0.88	0.26	2.94
AO Exposure Opportunity Index 1	2	31	108	1,127	-0.02	-0.51	0.47
AO Exposure Opportunity Index 2	2	31	106	1,127	-0.01	-0.51	0.50
Self-Report AO Exposure 1	1	31	56	1,937	0.89	0.12	6.79
Self-Report AO Exposure 2	2	31	115	1,937	1.01	0.23	4.35
ANOMALIES OF HEART VALVES							
Veteran Status	59	87	922	1,438	1.07	0.75	1.54
Vietnam Veteran Status	12	146	242	2,372	0.71	0.39	1.32
AO Exposure Opportunity Index 1	13	120	155	1,870	0.11	-0.09	0.30
AO Exposure Opportunity Index 2	13	120	172	1,868	0.07	-0.15	0.29
Self-Report AO Exposure 1	4	135	84	3,152	1.01	0.36	2.85
Self-Report AO Exposure 2	5	135	172	3,152	0.65	0.26	1.63

Table 52. Tests of Hypotheses — Basic Analyses^a — Continued

Defect Group/Hypothesis	Number of Respondents by "Exposure" Status				OR or Beta	Confidence Limits, 95%	
	Case		Control			Lower	Upper
	+	-	+	-			
FIBROELASTOSIS CORDIS							
Veteran Status	3	4	246	336	0.98	0.21	4.18
Vietnam Veteran Status	0	7	72	582	—	—	—
AO Exposure Opportunity Index 1	0	8	64	603	—	—	—
AO Exposure Opportunity Index 2	0	8	61	603	—	—	—
Self-Report AO Exposure 1	0	8	30	1,097	—	—	—
Self-Report AO Exposure 2	0	8	64	1,097	—	—	—
PATENT DUCTUS ARTERIOSUS							
Veteran Status	110	239	985	1,559	0.89	0.69	1.15
Vietnam Veteran Status	27	349	251	2,544	0.81	0.53	1.14
AO Exposure Opportunity Index 1	17	271	163	1,977	-0.11	-0.31	0.09
AO Exposure Opportunity Index 2	17	271	182	1,977	-0.13 #	-0.35	0.08
01/68-04/72	1	42	30	519	-0.23	-0.93	0.46
05/72-08/76	12	61	85	665	0.13	-0.13	0.19
09/76-12/80	4	168	67	793	-0.50	-0.97	-0.03
Self-Report AO Exposure 1	6	287	89	3,194	0.74	0.32	1.13
Self-Report AO Exposure 2	12	287	179	3,194	0.74	0.40	1.16
SELECTED PDA							
Veteran Status	96	213	983	1,548	0.84	0.64	1.10
Vietnam Veteran Status	24	309	251	2,531	0.82	0.52	1.17
AO Exposure Opportunity Index 1	14	245	163	1,972	-0.14	-0.36	0.08
AO Exposure Opportunity Index 2	15	245	182	1,972	-0.14 #	-0.36	0.09
01/68-04/72	1	42	30	519	-0.23	-0.93	0.46
05/72-08/76	11	56	85	665	0.11	-0.16	0.08
09/76-12/80	3	147	67	788	-0.49	-0.98	0.01
Self-Report AO Exposure 1	5	258	90	3,216	0.69	0.27	1.13
Self-Report AO Exposure 2	10	258	181	3,216	0.68	0.35	1.11
COARCTATION OF AORTA							
Veteran Status	28	39	813	1,207	1.01	0.60	1.49
Vietnam Veteran Status	8	67	197	2,043	1.26	0.59	2.49
AO Exposure Opportunity Index 1	5	52	120	1,436	0.03	-0.30	0.06
AO Exposure Opportunity Index 2	6	52	124	1,379	0.05	-0.29	0.08
Self-Report AO Exposure 1	3	54	64	2,389	1.89	0.57	6.10
Self-Report AO Exposure 2	5	54	135	2,426	1.58	0.62	4.11
OTHER ANOMALIES OF AORTA							
Veteran Status	26	33	668	1,078	1.28	0.74	2.13
Vietnam Veteran Status	4	59	187	1,759	0.59	0.21	1.16
AO Exposure Opportunity Index 1	3	50	130	1,299	-0.09	-0.49	0.11
AO Exposure Opportunity Index 2	4	50	141	1,299	-0.06	-0.44	0.11
Self-Report AO Exposure 1	0	53	66	2,236	—	—	—
Self-Report AO Exposure 2	1	53	136	2,256	0.33	0.04	2.11
STEN ATRES PULMONARY ART							
Veteran Status	21	58	807	1,271	0.66	0.39	1.11
Vietnam Veteran Status	4	79	220	2,078	0.53	0.19	1.48
AO Exposure Opportunity Index 1	4	57	144	1,615	-0.07	-0.46	0.11
AO Exposure Opportunity Index 2	5	57	158	1,615	-0.04	-0.41	0.13
Self-Report AO Exposure 1	0	62	77	2,743	—	—	—
Self-Report AO Exposure 2	0	62	152	2,743	—	—	—

Table 52. Tests of Hypotheses — Basic Analyses^a — Continued

Defect Group/Hypothesis	Number of Respondents by "Exposure" Status				OR or Beta	Confidence Limits, 95%	
	Case		Control			Lower	Upper
	+	-	+	-			
ANOM GREAT VEINS							
Veteran Status	14	22	643	991	0.90	0.45	1.81
Vietnam Veteran Status	3	36	176	1,668	0.82	0.25	2.70
AO Exposure Opportunity Index 1	2	30	110	1,267	-0.08	-0.67	0.52
AO Exposure Opportunity Index 2	4	30	127	1,339	0.11	-0.27	0.49
Self-Report AO Exposure 1	0	32	63	2,222	—	—	—
Self-Report AO Exposure 2	2	32	125	2,280	1.17	0.27	4.96
CHOANAL ATRESIA							
Veteran Status	10	12	436	564	1.04	0.44	2.50
Vietnam Veteran Status	2	22	143	1,093	0.77	0.18	3.34
AO Exposure Opportunity Index 1	1	20	91	897	-0.25	-1.12	0.62
AO Exposure Opportunity Index 2	3	20	107	932	0.14	-0.32	0.61
Self-Report AO Exposure 1	1	22	44	1,662	1.41	0.18	1.25
Self-Report AO Exposure 2	1	22	95	1,662	0.58	0.07	4.56
CONGENITAL CYSTIC LUNG							
Veteran Status	2	2	144	160	1.47	0.20	1.04
Vietnam Veteran Status	0	4	26	304	—	—	—
AO Exposure Opportunity Index 1	0	3	22	216	—	—	—
AO Exposure Opportunity Index 2	0	3	20	216	—	—	—
Self-Report AO Exposure 1	0	3	11	408	—	—	—
Self-Report AO Exposure 2	0	3	23	408	—	—	—
AGENESIS OF LUNG							
Veteran Status	2	4	187	183	0.62	0.11	3.65
Vietnam Veteran Status	1	6	46	422	1.66	0.19	4.34
AO Exposure Opportunity Index 1	1	6	35	377	-0.09	-1.27	1.10
AO Exposure Opportunity Index 2	1	6	33	377	-0.03	-1.26	1.21
Self-Report AO Exposure 1	0	7	16	708	—	—	—
Self-Report AO Exposure 2	0	7	38	708	—	—	—
CLEFT PALATE							
Veteran Status	37	73	938	1,435	0.73	0.48	1.12
Vietnam Veteran Status	7	110	244	2,375	0.56	0.26	1.24
AO Exposure Opportunity Index 1	3	98	157	1,875	-0.47	-1.07	0.12
AO Exposure Opportunity Index 2	5	98	177	1,875	-0.08	-0.39	0.23
01/68-04/72	1	26	32	523	0.04	-0.52	0.61
05/72-08/76	1	41	84	649	-1.13	-2.68	0.41
09/76-12/80	3	31	61	703	0.21	-0.16	0.58
Self-Report AO Exposure 1	2	100	87	3,146	0.76	0.18	1.18
Self-Report AO Exposure 2	4	100	169	3,146	0.78	0.28	1.15
CLEFT LIP W/WOUT CLEFT PALATE							
Veteran Status	105	102	960	1,463	1.40	1.04	1.89
Vietnam Veteran Status	26	105	212	864	1.10	0.69	1.75
AO Exposure Opportunity Index 1	21	91	153	801	0.06	-0.12	0.24
AO Exposure Opportunity Index 2	25	91	168	801	0.16	0.00	0.32
Self-Report AO Exposure 1	7	103	80	1,319	1.07	0.48	1.39
Self-Report AO Exposure 2	17	103	155	1,343	1.36	0.79	1.35

Table 52. Tests of Hypotheses — Basic Analyses^a — Continued

Defect Group/Hypothesis	Number of Respondents by "Exposure" Status				OR or Beta	Confidence Limits, 95%	
	Case		Control			Lower	Upper
	+	-	+	-			
PYLORIC STENOSIS							
Veteran Status	136	153	968	1,480	1.15	0.89	1.48
Vietnam Veteran Status	28	289	237	2,458	0.90	0.59	1.37
White	25	275	219	2,012	0.80	0.52	1.25
Other	3	14	18	446	5.57	1.43	21.73
AO Exposure Opportunity Index 1	21	271	159	1,954	0.00	-0.16	0.16
AO Exposure Opportunity Index 2	25	271	177	1,954	0.00	-0.17	0.17
Self-Report AO Exposure 1	5	286	88	3,140	0.60	0.24	1.49
Self-Report AO Exposure 2	11	286	174	3,140	0.67	0.36	1.25
TRACHEO-ESOPH FIST ATRES							
Veteran Status	20	25	731	1,153	1.11	0.60	2.05
Vietnam Veteran Status	7	45	189	1,885	1.16	0.47	2.87
AO Exposure Opportunity Index 1	5	38	129	1,422	0.14	-0.17	0.44
AO Exposure Opportunity Index 2	7	38	136	1,422	0.22	-0.06	0.50
Self-Report AO Exposure 1	1	40	68	2,445	0.89	0.12	3.61
Self-Report AO Exposure 2	4	40	132	2,445	1.87	0.65	5.34
ATRES STEN SMALL INTEST							
Veteran Status	22	47	794	1,235	0.77	0.45	1.33
Vietnam Veteran Status	5	69	198	2,029	0.81	0.32	2.05
AO Exposure Opportunity Index 1	1	57	131	1,606	-0.60	-1.55	0.36
AO Exposure Opportunity Index 2	3	57	134	1,606	-0.27	-0.83	0.29
Self-Report AO Exposure 1	1	59	68	2,686	0.71	0.10	3.22
Self-Report AO Exposure 2	2	59	140	2,686	0.68	0.16	2.83
ATRES STEN RECT ANUS							
Veteran Status	39	43	819	1,202	1.36	0.86	2.15
Vietnam Veteran Status	7	82	209	2,080	0.89	0.40	1.97
AO Exposure Opportunity Index 1	5	68	144	1,639	-0.03	-0.35	0.29
AO Exposure Opportunity Index 2	6	68	154	1,639	-0.05	-0.40	0.29
Self-Report AO Exposure 1	2	70	77	2,784	1.09	0.26	4.53
Self-Report AO Exposure 2	4	70	157	2,784	1.06	0.38	2.96
HIRSCHSPRUNG'S DISEASE							
Veteran Status	11	24	657	1,007	0.77	0.37	1.64
Vietnam Veteran Status	4	35	186	1,818	1.12	0.39	3.23
AO Exposure Opportunity Index 1	2	33	115	1,407	0.09	-0.27	0.45
AO Exposure Opportunity Index 2	1	33	124	1,407	-0.05	-0.59	0.49
Self-Report AO Exposure 1	2	33	57	2,349	2.43	0.56	11.51
Self-Report AO Exposure 2	2	33	116	2,349	1.29	0.30	5.55
ANOM INTEST FIXATION							
Veteran Status	18	19	642	1,002	1.49	0.76	2.94
Vietnam Veteran Status	4	37	179	1,700	0.99	0.34	2.83
White	1	29	160	1,408	0.31	0.04	2.32
Other	3	8	19	292	3.65	0.88	15.09
AO Exposure Opportunity Index 1	3	33	118	1,329	0.17	-0.14	0.48
AO Exposure Opportunity Index 2	4	33	131	1,383	0.22	-0.08	0.53
Self-Report AO Exposure 1	3	34	59	2,333	3.11	0.91	10.62
Self-Report AO Exposure 2	3	34	130	2,333	1.50	0.44	5.04

Table 52. Tests of Hypotheses — Basic Analyses^a — Continued

Defect Group/Hypothesis	Number of Respondents by "Exposure" Status				OR or Beta	Confidence Limits, 95%	
	Case		Control			Lower	Upper
	+	-	+	-			
ANOM GALL-BLAD,BILE,LIVER							
Veteran Status	13	47	693	1,189	0.51	0.27	0.98
Vietnam Veteran Status	7	13	135	473	2.05	0.77	5.45
AO Exposure Opportunity Index 1	4	15	94	360	0.16	-0.17	0.50
AO Exposure Opportunity Index 2	3	15	103	360	-0.28	-0.89	0.32
Self-Report AO Exposure 1	2	16	46	667	1.91	0.42	8.61
Self-Report AO Exposure 2	2	17	84	667	0.82	0.18	3.81
ANOM PANCREAS							
Veteran Status	2	6	272	464	0.49	0.09	2.60
Vietnam Veteran Status	0	8	82	736	—	—	—
AO Exposure Opportunity Index 1	0	8	55	601	—	—	—
AO Exposure Opportunity Index 2	0	8	57	601	—	—	—
Self-Report AO Exposure 1	0	8	19	1,065	—	—	—
Self-Report AO Exposure 2	0	8	46	1,065	—	—	—
INDETERMINATE SEX							
Veteran Status	3	2	239	281	2.26	0.36	14.32
Vietnam Veteran Status	0	5	73	520	—	—	—
AO Exposure Opportunity Index 1	0	5	51	465	—	—	—
AO Exposure Opportunity Index 2	0	5	53	465	—	—	—
Self-Report AO Exposure 1	0	5	20	848	—	—	—
Self-Report AO Exposure 2	0	5	50	848	—	—	—
HYPOSPADIAS							
Veteran Status	193	348	1,024	1,612	0.83	0.68	1.01
Vietnam Veteran Status	41	542	261	2,637	0.76	0.53	1.07
AO Exposure Opportunity Index 1	36	440	172	2,122	0.03	-0.09	0.16
AO Exposure Opportunity Index 2	32	440	193	2,122	-0.04	-0.18	0.11
Self-Report AO Exposure 1	13	467	90	3,213	0.99	0.55	1.80
Self-Report AO Exposure 2	18	467	182	3,213	0.66	0.40	1.09
EPISPADIAS							
Veteran Status	4	11	280	584	0.60	0.18	1.98
Vietnam Veteran Status	2	15	80	864	1.30	0.28	6.91
AO Exposure Opportunity Index 1	0	11	48	511	—	—	—
AO Exposure Opportunity Index 2	0	11	53	511	—	—	—
Self-Report AO Exposure 1	0	11	21	920	—	—	—
Self-Report AO Exposure 2	0	11	44	920	—	—	—
ANOM OVARY,FALLOP,UTERUS							
Veteran Status	6	8	399	450	0.83	0.28	2.46
Vietnam Veteran Status	2	14	141	956	0.93	0.21	4.13
AO Exposure Opportunity Index 1	2	13	94	855	0.03	-0.54	0.60
AO Exposure Opportunity Index 2	2	13	104	855	-0.00	-0.59	0.58
Self-Report AO Exposure 1	1	15	48	1,542	2.13	0.27	16.51
Self-Report AO Exposure 2	1	15	97	1,542	1.13	0.15	8.65
ANOM VAGINA, EXT FEM GENIT							
Veteran Status	11	25	591	968	0.82	0.38	1.75
Vietnam Veteran Status	4	36	173	1,683	1.10	0.38	3.18
AO Exposure Opportunity Index 1	4	29	129	1,425	0.13	-0.24	0.50
AO Exposure Opportunity Index 2	4	29	143	1,425	-0.02	-0.53	0.49
Self-Report AO Exposure 1	1	31	69	2,490	0.94	0.12	7.31
Self-Report AO Exposure 2	2	31	136	2,490	1.19	0.28	6.15

Table 52. Tests of Hypotheses — Basic Analyses^a — Continued

Defect Group/Hypothesis	Number of Respondents by "Exposure" Status				OR or Beta	Confidence Limits, 95%	
	Case		Control			Lower	Upper
	+	-	+	-			
PSEUDOHERMAPHRODITISM							
Veteran Status	8	18	406	727	0.93	0.38	2.27
Vietnam Veteran Status	2	26	133	1,273	0.79	0.18	3.43
AO Exposure Opportunity Index 1	2	20	87	961	-0.07	-0.76	0.62
AO Exposure Opportunity Index 2	2	20	93	961	0.09	-0.47	0.66
Self-Report AO Exposure 1	0	20	32	1,412	—	—	—
Self-Report AO Exposure 2	2	20	81	1,637	2.33	0.51	10.54
RENAL AGENESIS							
Veteran Status	24	32	712	1,180	1.11	0.63	1.95
Vietnam Veteran Status	4	56	173	1,892	0.74	0.26	2.10
AO Exposure Opportunity Index 1	2	45	109	1,328	-0.27	-0.89	0.34
AO Exposure Opportunity Index 2	1	45	116	1,328	-1.00	-2.53	0.53
Self-Report AO Exposure 1	0	46	58	2,231	—	—	—
Self-Report AO Exposure 2	1	46	115	2,231	0.41	0.06	3.02
CYSTIC KIDNEY DISEASE							
Veteran Status	15	34	609	1,055	0.75	0.40	1.42
Vietnam Veteran Status	1	49	165	1,677	0.23	0.03	1.70
AO Exposure Opportunity Index 1	1	37	104	1,249	-0.83	-2.40	0.74
AO Exposure Opportunity Index 2	1	37	116	1,249	-0.52	-1.53	0.48
Self-Report AO Exposure 1	0	37	58	2,069	—	—	—
Self-Report AO Exposure 2	1	37	116	2,089	0.44	0.06	3.28
OBSTRUCT DEF URIN TRACT							
Veteran Status	28	48	751	1,231	0.88	0.54	1.45
Vietnam Veteran Status	10	76	217	2,040	1.22	0.62	2.43
AO Exposure Opportunity Index 1	7	65	134	1,489	0.06	-0.22	0.34
AO Exposure Opportunity Index 2	6	65	149	1,489	-0.05	-0.39	0.29
Self-Report AO Exposure 1	1	69	74	2,558	0.50	0.07	3.68
Self-Report AO Exposure 2	3	69	144	2,558	0.76	0.23	2.47
EXSTROPHY URIN BLADDER							
Veteran Status	5	3	251	370	2.58	0.56	11.93
Vietnam Veteran Status	1	8	55	646	1.42	0.17	12.02
AO Exposure Opportunity Index 1	1	9	41	491	-0.23	-1.43	0.98
AO Exposure Opportunity Index 2	1	9	44	491	0.25	-0.33	0.84
Self-Report AO Exposure 1	0	9	17	848	—	—	—
Self-Report AO Exposure 2	1	9	40	874	2.15	0.25	13.68
ATRES STEN URETHRA, BLAD							
Veteran Status	22	22	751	1,137	1.42	0.76	2.66
Vietnam Veteran Status	5	44	201	1,936	0.95	0.36	2.47
AO Exposure Opportunity Index 1	3	39	119	1,418	-0.06	-0.49	0.38
AO Exposure Opportunity Index 2	4	39	145	1,539	0.00	-0.39	0.40
Self-Report AO Exposure 1	0	39	62	2,402	—	—	—
Self-Report AO Exposure 2	4	39	138	2,607	1.89	0.67	5.39
CLUBFOOT							
Veteran Status	283	488	1,032	1,627	0.90	0.76	1.07
Vietnam Veteran Status	78	771	261	2,664	1.02	0.77	1.34
AO Exposure Opportunity Index 1	54	641	173	2,166	-0.00	-0.12	-0.12
AO Exposure Opportunity Index 2	56	641	195	2,168	0.01	-0.11	-0.13
Self-Report AO Exposure 1	22	672	84	3,080	1.19	0.73	1.94
Self-Report AO Exposure 2	38	672	166	3,082	1.05	0.72	1.52

Table 52. Tests of Hypotheses — Basic Analyses^a — Continued

Defect Group/Hypothesis	Number of Respondents by "Exposure" Status				OR or Beta	Confidence Limits, 95%	
	Case		Control			Lower	Upper
	+	-	+	-			
SELECTED CLUBFOOT							
Veteran Status	184	317	1,028	1,625	0.88	0.71	1.08
Vietnam Veteran Status	46	501	261	2,663	0.99	0.71	1.39
White	36	419	220	2,041	0.86	0.59	1.25
Other	10	82	41	622	2.03	0.95	4.34
AO Exposure Opportunity Index 1	33	417	172	2,151	-0.02	-0.17	0.13
AO Exposure Opportunity Index 2	34	417	195	2,153	0.01	-0.14	0.15
Self-Report AO Exposure 1	15	435	90	3,297	1.25	0.71	1.20
Self-Report AO Exposure 2	25	435	179	3,299	1.08	0.70	1.68
REDUCTION DEFORMITY							
Veteran Status	62	81	920	1,366	1.02	0.71	1.45
Vietnam Veteran Status	14	143	232	2,296	1.03	0.58	1.84
AO Exposure Opportunity Index 1	12	113	161	1,904	0.11	-0.10	0.33
AO Exposure Opportunity Index 2	14	113	176	1,906	0.05	-0.19	0.28
Self-Report AO Exposure 1	4	119	90	3,135	1.13	0.40	1.19
Self-Report AO Exposure 2	10	119	176	3,135	1.45	0.73	2.89
GEN FLEXION CONTRACTURE							
Veteran Status	7	10	415	598	1.11	0.40	1.03
Vietnam Veteran Status	4	17	121	1,165	2.93	0.93	5.24
AO Exposure Opportunity Index 1	2	14	82	887	0.16	-0.40	0.71
AO Exposure Opportunity Index 2	3	14	91	904	0.32	-0.11	0.74
Self-Report AO Exposure 1	1	17	46	1,602	1.53	0.19	12.47
Self-Report AO Exposure 2	1	17	83	1,602	1.00	0.13	3.00
CHONDRODYSTROPHY							
Veteran Status	3	11	414	692	0.47	0.13	1.78
Vietnam Veteran Status	0	14	103	1,106	—	—	—
AO Exposure Opportunity Index 1	0	9	56	607	—	—	—
AO Exposure Opportunity Index 2	0	9	58	607	—	—	—
Self-Report AO Exposure 1	0	9	32	1,012	—	—	—
Self-Report AO Exposure 2	0	9	62	1,012	—	—	—
OSTEOGENESIS IMPERFECTA							
Veteran Status	3	4	219	325	0.89	0.18	1.30
Vietnam Veteran Status	0	7	51	544	—	—	—
AO Exposure Opportunity Index 1	0	7	43	492	—	—	—
AO Exposure Opportunity Index 2	0	7	39	492	—	—	—
Self-Report AO Exposure 1	0	7	27	836	—	—	—
Self-Report AO Exposure 2	0	7	47	836	—	—	—
HEREDITARY OEDEMA OF LEGS							
Veteran Status	0	3	58	87	—	—	—
Vietnam Veteran Status	0	3	19	145	—	—	—
AO Exposure Opportunity Index 1	0	1	12	92	—	—	—
AO Exposure Opportunity Index 2	0	1	12	92	—	—	—
Self-Report AO Exposure 1	0	1	5	166	—	—	—
Self-Report AO Exposure 2	1	1	10	232	19.8	1.23	320.98
SPEC ANOM HAIR							
Veteran Status	2	9	163	457	0.64	0.13	1.12
Vietnam Veteran Status	2	11	64	772	2.01	0.42	5.58
AO Exposure Opportunity Index 1	1	7	15	320	0.45	-0.14	0.05
AO Exposure Opportunity Index 2	0	7	13	263	—	—	—
Self-Report AO Exposure 1	1	7	7	457	8.69	0.92	81.31
Self-Report AO Exposure 2	1	7	14	457	4.70	0.53	41.33

Table 52. Tests of Hypotheses — Basic Analyses^a — Continued

Defect Group/Hypothesis	Number of Respondents by "Exposure" Status				OR or Beta	Confidence Limits, 95%	
	Case		Control			Lower	Upper
	+	-	+	-			
SPEC ANOM NAILS							
Veteran Status	5	7	194	380	2.14	0.58	7.37
Vietnam Veteran Status	3	12	55	638	4.22	1.06	16.76
AO Exposure Opportunity Index 1	2	7	38	430	0.33	-0.19	0.35
AO Exposure Opportunity Index 2	2	7	42	430	0.46	-0.04	0.96
Self-Report AO Exposure 1	0	9	22	674	—	—	—
Self-Report AO Exposure 2	0	9	41	674	—	—	—
ANOMALIES OF SPLEEN							
Veteran Status	15	24	514	858	1.22	0.61	2.45
Vietnam Veteran Status	2	39	136	1,397	0.56	0.13	2.36
AO Exposure Opportunity Index 1	2	27	107	1,180	0.04	-0.43	0.51
AO Exposure Opportunity Index 2	2	27	109	1,155	-0.12	-0.76	0.51
Self-Report AO Exposure 1	0	29	56	1,994	—	—	—
Self-Report AO Exposure 2	1	29	111	1,994	0.62	0.08	6.66
ANOM ADRENAL GLAND							
Veteran Status	2	4	229	369	0.75	0.13	4.34
Vietnam Veteran Status	0	6	53	598	—	—	—
AO Exposure Opportunity Index 1	0	6	40	477	—	—	—
AO Exposure Opportunity Index 2	0	6	43	477	—	—	—
Self-Report AO Exposure 1	0	6	22	800	—	—	—
Self-Report AO Exposure 2	0	6	44	800	—	—	—
ANOM THYROID GLAND							
Veteran Status	8	15	454	759	0.80	0.33	1.96
Vietnam Veteran Status	2	23	153	1,347	0.74	0.17	3.20
AO Exposure Opportunity Index 1	2	18	81	823	0.02	-0.55	0.59
AO Exposure Opportunity Index 2	2	18	94	823	0.14	-0.37	0.66
Self-Report AO Exposure 1	0	19	31	1,256	—	—	—
Self-Report AO Exposure 2	1	19	81	1,461	0.93	0.12	7.18
ANOM OTHER ENDOCRINE							
Veteran Status	6	7	348	691	1.89	0.59	3.04
Vietnam Veteran Status	1	13	120	1,039	0.66	0.08	5.21
AO Exposure Opportunity Index 1	0	7	58	496	—	—	—
AO Exposure Opportunity Index 2	1	7	77	617	-0.27	-1.56	1.01
Self-Report AO Exposure 1	0	8	31	1,113	—	—	—
Self-Report AO Exposure 2	0	8	64	1,113	—	—	—
SITUS INVERSUS							
Veteran Status	3	8	257	506	0.61	0.15	2.51
Vietnam Veteran Status	2	11	77	890	2.52	0.51	12.48
AO Exposure Opportunity Index 1	2	8	35	448	0.54	0.12	0.96
AO Exposure Opportunity Index 2	2	8	37	448	0.50	0.02	0.99
Self-Report AO Exposure 1	0	9	15	499	—	—	—
Self-Report AO Exposure 2	1	9	42	704	2.32	0.27	15.67
CONJOINED TWINS							
Veteran Status	1	3	131	124	0.41	0.04	4.13
Vietnam Veteran Status	0	4	39	255	—	—	—
AO Exposure Opportunity Index 1	0	6	32	310	—	—	—
AO Exposure Opportunity Index 2	0	6	36	310	—	—	—
Self-Report AO Exposure 1	0	6	15	572	—	—	—
Self-Report AO Exposure 2	0	6	31	572	—	—	—

Table 52. Tests of Hypotheses — Basic Analyses^a — Continued

Defect Group/Hypothesis	Number of Respondents by "Exposure" Status				OR or Beta	Confidence Limits, 95%	
	Case		Control			Lower	Upper
	+	-	+	-			
OTH FORM MONSTER							
Veteran Status	2	3	204	237	0.95	0.15	3.15
Vietnam Veteran Status	0	5	53	441	—	—	—
AO Exposure Opportunity Index 1	0	3	39	324	—	—	—
AO Exposure Opportunity Index 2	0	3	36	324	—	—	—
Self-Report AO Exposure 1	0	3	17	603	—	—	—
Self-Report AO Exposure 2	0	3	29	603	—	—	—
DOWN'S DISEASE							
Veteran Status	90	103	991	1,515	1.30	0.95	1.77
Vietnam Veteran Status	19	193	54	2,526	0.95	0.57	1.56
AO Exposure Opportunity Index 1	14	169	168	2,042	-0.08	-0.29	0.14
AO Exposure Opportunity Index 2	15	169	182	2,042	-0.12	-0.36	0.12
Self-Report AO Exposure 1	4	177	94	3,312	0.73	0.26	2.02
Self-Report AO Exposure 2	7	177	84	3,317	0.67	0.31	1.45
OTH SYND AUTOSOMAL ABNORM							
Veteran Status	18	26	581	984	1.27	0.67	2.40
Vietnam Veteran Status	1	44	156	1,565	0.22	0.03	1.62
AO Exposure Opportunity Index 1	1	38	102	1,161	-0.81	-2.26	0.64
AO Exposure Opportunity Index 2	1	38	104	1,161	-0.94	-2.45	0.58
Self-Report AO Exposure 1	1	38	54	1,957	0.86	0.11	5.48
Self-Report AO Exposure 2	1	38	102	1,957	0.52	0.07	3.89
TUBEROUS SCLEROSIS							
Veteran Status	1	0	1	4	—	—	—
Vietnam Veteran Status	0	1	1	5	—	—	—
AO Exposure Opportunity Index 1	0	1	1	5	—	—	—
AO Exposure Opportunity Index 2	0	1	1	5	—	—	—
Self-Report AO Exposure 1	0	1	0	9	—	—	—
Self-Report AO Exposure 2	0	1	0	9	—	—	—
OTH SPEC SYNDROME							
Veteran Status	14	55	679	1,157	0.52	0.28	0.96
Vietnam Veteran Status	7	13	92	368	2.01	0.77	5.25
AO Exposure Opportunity Index 1	5	15	68	280	0.09	-0.32	0.51
AO Exposure Opportunity Index 2	5	15	77	280	0.16	-0.22	0.55
Self-Report AO Exposure 1	1	16	37	481	0.69	0.09	3.49
Self-Report AO Exposure 2	5	16	81	502	1.82	0.62	5.32
POTTER SYNDROME							
Veteran Status	11	30	563	1,002	0.68	0.33	1.40
Vietnam Veteran Status	2	41	140	1,565	0.63	0.15	2.64
AO Exposure Opportunity Index 1	1	30	95	1,064	-0.20	-0.89	0.50
AO Exposure Opportunity Index 2	0	30	97	1,064	—	—	—
Self-Report AO Exposure 1	0	31	49	1,844	—	—	—
Self-Report AO Exposure 2	0	31	100	1,844	—	—	—
MULT CONGEN ANOM UNSPEC							
Veteran Status	2	1	28	51	3.76	0.33	42.16
Vietnam Veteran Status	0	3	15	79	—	—	—
AO Exposure Opportunity Index 1	0	3	10	59	—	—	—
AO Exposure Opportunity Index 2	0	3	15	59	—	—	—
Self-Report AO Exposure 1	0	3	6	138	—	—	—
Self-Report AO Exposure 2	0	3	12	138	—	—	—

Table 52. Tests of Hypotheses — Basic Analyses^a — Continued

Defect Group/Hypothesis	Number of Respondents by "Exposure" Status				OR or Beta	Confidence Limits, 95%	
	Case		Control			Lower	Upper
	+	-	+	-			
DIAPHRAGMATIC HERNIA							
Veteran Status	31	39	863	1,328	1.41	0.85	2.35
Vietnam Veteran Status	4	70	217	2,201	0.69	0.24	1.93
AO Exposure Opportunity Index 1	3	56	136	1,601	-0.18	-0.70	0.33
AO Exposure Opportunity Index 2	2	56	149	1,601	-0.84	-1.97	0.29
Self-Report AO Exposure 1	1	58	80	2,776	0.47	0.06	1.52
Self-Report AO Exposure 2	2	58	158	2,778	0.50	0.12	2.12
OMPHALOCELE							
Veteran Status	33	62	920	1,442	0.84	0.54	1.32
Vietnam Veteran Status	13	95	245	2,436	1.41	0.77	2.59
AO Exposure Opportunity Index 1	10	78	164	1,943	0.15	-0.07	0.37
AO Exposure Opportunity Index 2	10	78	185	1,943	0.15	-0.08	0.37
Self-Report AO Exposure 1	4	82	91	3,260	1.51	0.53	4.29
Self-Report AO Exposure 2	8	82	182	3,286	1.64	0.77	3.48
OTHER NEOPLASM							
Veteran Status	25	48	773	1,246	0.83	0.50	1.38
Vietnam Veteran Status	14	73	203	2,046	1.80	0.99	3.29
AO Exposure Opportunity Index 1	7	70	128	1,602	0.14	-0.11	0.39
AO Exposure Opportunity Index 2	13	70	143	1,643	0.26	0.03	0.49
Self-Report AO Exposure 1	3	79	70	2,762	1.50	0.46	4.93
Self-Report AO Exposure 2	5	79	143	2,762	1.25	0.49	3.15
CYTOMEGALOVIRUS							
Veteran Status	4	5	137	286	1.67	0.43	3.49
Vietnam Veteran Status	1	9	45	466	1.25	0.15	1.55
AO Exposure Opportunity Index 1	0	6	24	268	—	—	—
AO Exposure Opportunity Index 2	0	6	28	268	—	—	—
Self-Report AO Exposure 1	0	6	16	483	—	—	—
Self-Report AO Exposure 2	0	6	27	483	—	—	—
HERPES SIMPLEX							
Veteran Status	3	5	180	440	1.54	0.33	7.16
Vietnam Veteran Status	2	8	44	620	4.02	0.80	21.10
AO Exposure Opportunity Index 1	1	5	26	350	0.15	-1.15	1.45
AO Exposure Opportunity Index 2	1	5	27	350	0.31	-0.57	1.19
Self-Report AO Exposure 1	0	6	12	581	—	—	—
Self-Report AO Exposure 2	0	6	22	581	—	—	—
SYPHILIS							
Veteran Status	1	6	64	327	0.57	0.07	4.86
Vietnam Veteran Status	0	7	15	391	—	—	—
AO Exposure Opportunity Index 1	0	4	3	69	—	—	—
AO Exposure Opportunity Index 2	0	4	4	69	—	—	—
Self-Report AO Exposure 1	0	4	3	117	—	—	—
Self-Report AO Exposure 2	0	4	5	117	—	—	—

Table 53. Tests of Hypotheses - Primary Adjusted Analyses^a

Defect Group/Hypothesis	Number of Respondents by "Exposure" Status				OR or Beta	Confidence Limits, 95%	
	Case		Control			Lower	Upper
	+	-	+	-			
ALL CASE BABIES							
Veteran Status	1,547	2,575	993	1,549	0.91	0.81	1.01
Vietnam Veteran Status	402	4,123	257	2,542	0.96	0.81	1.13
AO Exposure Opportunity Index 1	289	3,139	161	1,907	0.05	-0.03	0.12
AO Exposure Opportunity Index 2	308	3,139	181	1,907	0.04	-0.03	0.12
Self-Report AO Exposure 1	-	-	-	-	-	-	-
Self-Report AO Exposure 2	-	-	-	-	-	-	-
MULTIPLE DEFECTS							
Veteran Status	339	618	983	1,582	0.89	0.75	1.05
Vietnam Veteran Status	94	958	255	2,509	0.99	0.76	1.27
AO Exposure Opportunity Index 1	69	709	157	863	0.04	-0.07	0.15
AO Exposure Opportunity Index 2	70	709	176	1,863	0.07	-0.04	0.18
Self-Report AO Exposure 1	23	749	68	2,514	1.08	0.66	1.77
Self-Report AO Exposure 2	42	749	144	2,514	0.91	0.63	1.31
TOTAL NERVOUS SYSTEM DEFECTS							
Veteran Status	220	351	969	1,493	0.97	0.79	1.18
Vietnam Veteran Status	51	571	251	2,463	0.95	0.69	1.31
AO Exposure Opportunity Index 1	46	410	157	1,838	0.11	-0.02	0.23
AO Exposure Opportunity Index 2	44	410	176	1,838	0.11	-0.02	0.24
Self-Report AO Exposure 1	11	439	79	2,778	0.87	0.45	1.68
Self-Report AO Exposure 2	25	439	159	2,778	0.96	0.62	1.50
TOTAL EYE DEFECTS							
Veteran Status	29	68	773	1,156	0.66	0.41	1.06
Vietnam Veteran Status	9	97	201	1,949	0.97	0.48	1.99
AO Exposure Opportunity Index 1	6	70	133	1,500	-0.06	-0.40	0.28
AO Exposure Opportunity Index 2	5	70	143	1,500	-0.07	-0.43	0.29
Self-Report AO Exposure 1	1	72	72	2,527	0.51	0.07	1.72
Self-Report AO Exposure 2	4	72	147	2,529	0.95	0.34	1.67

^aKey to table headings (see text for further explanations):

- 1) See Table 7 for types of defects included in defect groupings.
- 2) Veteran Status — test of hypothesis that veterans have same risk as nonveterans (Vietnam veterans excluded); tests of hypotheses described below limited to veterans if odds ratio greater than 1.2 or less than 0.833 and statistically significant ($p < 0.05$).
- 3) Vietnam Veteran Status — test of hypothesis that Vietnam veterans have same risk as men who did not serve in Vietnam.
- 4) Agent Orange (AO) Exposure Opportunity Index 1 — index scores based on information contained in military records.
- 5) Agent Orange (AO) Exposure Opportunity Index 2 — index scores based on information obtained during interviews.
- 6) Self-Report Agent Orange (AO) Exposure 1 — those who said "yes" to question about AO exposure considered exposed.
- 7) Self-Report Agent Orange (AO) Exposure 2 — those who said "yes" and "don't know" to question about AO exposure considered exposed.
- 8) Meaning of "Exposure Status" varies with hypothesis. For example, for Veteran Status hypothesis, + = veteran (Vietnam veterans excluded), - = nonveterans. For AO Exposure Opportunity Index hypotheses, + = all Vietnam veterans given any index score, - = fathers who are not Vietnam veterans.
- 9) Odds ratio (OR) or regression coefficient (Beta) — odds ratio for Veteran Status, Vietnam Veteran Status, and Self-Report AO Exposure hypotheses; Beta for logistic regressions on AO Exposure Opportunity indices.
- 10) Upper and Lower 95% confidence limits for odds ratio or Beta; underlined confidence limits highlight OR's significantly different from 1.0 or Beta's significantly different from 0.0 ($p < 0.05$).

Table 53. Tests of Hypotheses - Primary Adjusted Analyses^a — Continued

Defect Group/Hypothesis	Number of Respondents by "Exposure" Status				OR or Beta	Confidence Limits, 95%	
	Case		Control			Lower	Upper
	+	-	+	-			
TOTAL CARDIOVASCULAR DEFECTS							
Veteran Status	296	584	978	1,520	0.85	0.72	0.92
Vietnam Veteran Status	79	880	251	2,502	0.86	0.65	1.13
AO Exposure Opportunity Index 1	61	634	158	1,873	0.03	-0.08	0.15
AO Exposure Opportunity Index 2	63	634	175	1,873	0.01	-0.11	0.13
Self-Report AO Exposure 1	20	685	72	2,580	1.01	0.60	1.69
Self-Report AO Exposure 2	37	685	150	2,580	0.91	0.62	1.32
COMPLEX CARDIOVASCULAR DEFECTS							
Veteran Status	141	250	945	1,441	0.88	0.69	1.12
Vietnam Veteran Status	26	391	243	2,389	0.59	0.39	0.90
AO Exposure Opportunity Index 1	19	294	150	1,778	-0.07	-0.25	0.11
AO Exposure Opportunity Index 2	19	294	166	1,778	-0.15	-0.36	0.05
Self-Report AO Exposure 1	5	310	80	2,786	0.50	0.20	1.27
Self-Report AO Exposure 2	11	310	163	2,786	0.58	0.31	1.09
TOTAL RESPIRATORY DEFECTS							
Veteran Status	14	18	540	700	1.07	0.51	2.23
Vietnam Veteran Status	3	32	154	1,280	0.89	0.26	2.98
AO Exposure Opportunity Index 1	2	28	96	982	-0.24	-0.97	0.49
AO Exposure Opportunity Index 2	4	28	113	1,015	0.08	-0.36	0.52
Self-Report AO Exposure 1	1	31	49	1,799	1.12	0.14	3.81
Self-Report AO Exposure 2	1	31	113	1,799	0.46	0.06	3.47
TOTAL GASTROINTESTINAL DEFECTS							
Veteran Status	362	499	974	1,509	1.04	0.88	1.24
Vietnam Veteran Status	88	861	253	2,491	0.95	0.74	1.24
AO Exposure Opportunity Index 1	57	701	158	1,862	0.03	-0.07	0.14
AO Exposure Opportunity Index 2	69	701	176	1,862	0.06	-0.05	0.16
Self-Report AO Exposure 1	23	736	65	2,532	1.19	0.73	1.94
Self-Report AO Exposure 2	46	736	135	2,532	1.13	0.80	1.60
TOTAL SEX ORGAN DEFECTS							
Veteran Status	203	382	971	1,512	0.80	0.65	0.98
Vietnam Veteran Status	49	204	242	937	0.94	0.66	1.34
AO Exposure Opportunity Index 1	42	167	145	745	0.12	-0.02	0.25
AO Exposure Opportunity Index 2	37	167	159	745	0.04	-0.11	0.19
Self-Report AO Exposure 1	13	198	63	1,157	1.11	0.59	2.09
Self-Report AO Exposure 2	19	198	141	1,165	0.72	0.43	1.21
TOTAL URINARY TRACT DEFECTS							
Veteran Status	74	109	896	1,374	1.01	0.72	1.40
Vietnam Veteran Status	18	183	225	2,288	0.97	0.58	1.62
AO Exposure Opportunity Index 1	12	140	135	1,694	-0.03	-0.27	0.21
AO Exposure Opportunity Index 2	12	140	154	1,694	-0.03	-0.28	0.22
Self-Report AO Exposure 1	1	144	74	2,767	0.24	0.03	1.74
Self-Report AO Exposure 2	9	144	152	2,785	1.06	0.52	2.16
TOTAL MUSCULOSKELETAL DEFECTS							
Veteran Status	328	554	982	1,530	0.90	0.76	1.07
Vietnam Veteran Status	83	882	252	2,517	0.95	0.73	1.24
AO Exposure Opportunity Index 1	56	678	156	1,873	-0.01	-0.13	0.11
AO Exposure Opportunity Index 2	62	678	174	1,875	0.01	-0.11	0.13
Self-Report AO Exposure 1	18	712	74	2,557	0.84	0.50	1.43
Self-Report AO Exposure 2	38	712	147	2,557	0.91	0.63	1.33

Table 53. Tests of Hypotheses - Primary Adjusted Analyses^a — Continued

Defect Group/Hypothesis	Number of Respondents by "Exposure" Status				OR or Beta	Confidence Limits, 95%	
	Case		Control			Lower	Upper
	+	-	+	-			
TOTAL ENDOCRINE DEFECTS							
Veteran Status	16	24	552	937	1.13	0.57	2.24
Vietnam Veteran Status	3	40	156	1,495	0.69	0.21	2.29
AO Exposure Opportunity Index 1	2	29	97	1,067	-0.07	-0.68	0.55
AO Exposure Opportunity Index 2	3	29	107	1,067	0.06	-0.41	0.54
Self-Report AO Exposure 1	0	31	46	1,862	—	—	—
Self-Report AO Exposure 2	1	31	100	1,862	0.56	0.07	4.21
AUTOSOMAL CHROMOSOME DEFECTS							
Veteran Status	101	120	936	1,402	0.94	0.69	1.28
Vietnam Veteran Status	19	221	242	2,358	0.80	0.48	1.33
AO Exposure Opportunity Index 1	13	176	155	1,769	-0.16	-0.42	0.10
AO Exposure Opportunity Index 2	13	176	169	1,769	-0.18	-0.47	0.10
Self-Report AO Exposure 1	4	182	83	2,863	0.84	0.30	2.35
Self-Report AO Exposure 2	7	182	170	2,867	0.79	0.36	1.73
DOMINANT MUTATIONS							
Veteran Status	5	13	432	583	0.42	0.14	1.28
Vietnam Veteran Status	0	18	112	1,015	—	—	—
AO Exposure Opportunity Index 1	0	9	61	597	—	—	—
AO Exposure Opportunity Index 2	0	9	56	597	—	—	—
Self-Report AO Exposure 1	0	9	30	1,059	—	—	—
Self-Report AO Exposure 2	1	9	66	1,059	2.32	0.28	19.58

Table 54. Numbers of Full Siblings Born Subsequent to Case Group Index Babies, by Presence or Absence of Birth Defects, Veteran Status, Vietnam Veteran Status, and Self-Reported Exposure to Agent Orange According to Reports of Parents with Fully Completed Interviews^a

Veteran Status	Defect Present		Total
	Yes	No	
Yes ^b	35 (4.3)	771 (95.7)	806 (100.0)
No	79 (5.5)	1,354 (94.5)	1,433 (100.0)

Vietnam Veteran Status	Defect Present		Total
	Yes	No	
Yes	9 (3.9)	222 (96.1)	231 (100.0)
No	114 (5.1)	2,125 (94.9)	2,239 (100.0)

Agent Orange Exposure	Defect Present		Total
	Yes	No	
Yes	7 (11.7)	55 (88.3)	62 (100.0)
Yes+DK ^c	9 (7.4)	113 (92.6)	122 (100.0)
No	91 (4.7)	1,838 (95.3)	1,929 (100.0)

^aReports of mothers with respect to presence or absence of birth defects, veteran status, and Vietnam veteran status. Reports of fathers for Agent Orange exposure. Tabulations of veteran status and Vietnam veteran status derived from mothers with fully completed interviews. Tabulation of self-report of Agent Orange exposure derived from families with fully completed mother's and father's interviews. Figures in parentheses are percentages of totals. Twin siblings of index babies are excluded.

^bExcludes Vietnam veterans.

^cDK = "don't know." DK responses to veteran and Vietnam veteran status questions excluded.

Table 55. Numbers of Full Siblings Born Subsequent to Case Group Index Babies, by Presence or Absence of Birth Defects and Scores on Agent Orange Exposure Opportunity Indices According to Reports of Mothers and Fathers with Fully Completed Interviews^a

Index Score ^b	Defect Present		Total
	Yes	No	
Index According to Information Obtained During Interviews			
0	89 (4.9)	1,732 (95.1)	1,821 (100.0)
1	1 (1.8)	55 (98.2)	56 (100.0)
2	3 (7.0)	41 (93.0)	44 (100.0)
3	2 (4.4)	43 (95.6)	45 (100.0)
4	1 (3.4)	28 (96.6)	29 (100.0)
5	1 (11.1)	8 (88.9)	9 (100.0)
Index According to Information Obtained from Military Records			
0	89 (4.9)	1,732 (95.1)	1,821 (100.0)
1	1 (1.4)	68 (98.6)	69 (100.0)
2	3 (8.6)	32 (91.4)	35 (100.0)
3	3 (13.6)	19 (86.4)	22 (100.0)
4	1 (4.5)	21 (95.5)	22 (100.0)
5	0 (0.0)	24 (100.0)	24 (100.0)

^aReports of mothers with respect to presence or absence of birth defects. Tabulations derived from families with fully completed mother's and father's interviews. Figures in parentheses are percentages of totals. Twin siblings of index babies excluded.

^bVietnam veterans who were not classified on index excluded; classified Vietnam veterans have scores ranging from 1 to 5; score of 0 reserved for men who did not serve in Vietnam.

Table 56. Distribution of Ratios of Secondary Adjusted Analysis Odds Ratios to Unadjusted Odds Ratios, by Numbers of "Exposed" Fathers^a

Ratio of Odds Ratios	Numbers of "Exposed" Fathers	
	Less Than Five	Five or More
<0.333	5	0
0.333-0.666	266	2
0.667-0.833	829	134
0.834-0.908	1,020	592
0.909-1.100	34,425	22,129
1.101-1.200	1,231	438
1.201-1.500	670	72
1.501-3.000	173	0
>3.000	6	0

^aOdds ratios adjusted for 108 covariables listed in Table 6 relative to odds ratios unadjusted for the covariables. Total comparisons, 61,992. If the number of "exposed" case group fathers or number of "exposed" control group fathers was less than 5, comparison is tabulated in "Less Than Five" column, otherwise in the "Five or More" column. Any ratio of odds ratios which was uncalculable was assumed to be 1.0. See text for further explanation.

Table 57. Association of Reports of Cases of Malaria in Vietnam Veterans with Occurrence of Selected Birth Defects^a

Defect Group	Number of Respondents by "Exposure" Status				OR	Confidence Limits, 95%	
	Case		Control			Lower	Upper
	+	-	+	-			
TOTAL SEX ORGAN DEFECTS	11	235	20	1,517	3.44	<u>1.60</u>	<u>7.41</u>
HYPOSPADIAS	10	209	21	1,512	3.43	<u>1.56</u>	<u>7.53</u>

^aKey to table headings (see text for further explanations):

- 1) See Table 7 for types of defects included in defect groupings. Controls are from case group families of index babies with all types of defects except those under consideration; analyses are limited to veterans.
- 2) + = Vietnam veterans who reported contracting malaria, - = Vietnam veterans who did not report malaria plus other men.
- 3) Upper and Lower 95% confidence limits for odds ratio; underlined confidence limits highlight OR's significantly different from 1.0 ($p < 0.05$).

6. FIGURES



FIGURE 1a. Record Form in Use in 1968

MEDICAL RECORD. This form contains medical information the disclosure or release of which is restricted by 5 U.S.C. 552, (b) (6); 45 CFR Part 5.

(1-4) CMCS
(5-8) NCDC #

CONGENITAL MALFORMATIONS
CASE RECORD

1. PATIENT'S NAME *first, middle, (9-15) LAST* _____ MOTHER'S NAME *first, LAST* _____

2. RESIDENCE *number and street* _____

(16-19) City _____ (20) County 1 Clayton 2 Cobb 3 DeKalb 4 Fulton 5 Gwinnett 8 Other _____ (21-30) Address Coordinates _____

3. (31) RACE 1 White 2 Negro 9 Not stated
Other, specify _____

4. (32) SEX 1 Male 2 Female 9 Not stated

5. (33-34) AGE AT DIAGNOSIS _____ months

(35) DURATION OF PREGNANCY _____ months

7. (36-39) DATE OF CONCEPTION _____ month _____ year

8. DATE OF: (40-43) Birth _____ month _____ day _____ year
(44-47) Diagnosis _____ month _____ day _____ year
(48-51) Death _____ month _____ day _____ year

9. (52-53) MATERNAL AGE AT BIRTH OF PATIENT _____ years

10. (54) BIRTH ORDER OF PATIENT (all pregnancies) _____

11. (55-64) CONGENITAL MALFORMATION(S) specify: _____

12. (65) CYTOGENETICS 1 Done: normal 3 Not done 2 Done: abnormal 9 Unknown

13. (66) CHROMOSOMAL DISORDER 1 Mongolism 4 Deletion B 5 2 Trisomy D 13-15 5 Turner's 3 Trisomy E 16-18 6 Klinefelter's 8 Other, specify _____

14. (67) AUTOPSY 1 Yes 2 No 9 Not stated

15. (68) NUMBER OF DEFECTS _____

16. (69) UNUSUAL FEATURES _____

Name of physician _____ Name of hospital _____
Address _____ Death certificate # _____
Date of Report _____

WORK SHEET - DEVELOPMENTAL

FIGURE 1a (cont'd). Record Form in Use in 1968

REVIEW OF MEDICAL RECORD				
Name of Hospital		Hospital Number		Date of Admission
Church Attended		Next of Kin or Close Contact		Home Phone
Maternal Age at Birth	Paternal Age at Birth		Number of Sibs (F/M)	
Ages of Sibs			Miscarriages	
Maternal Illness During Gestation				When?
Maternal Radiation During Gestation				When?
Drugs Taken During Gestation				When?
Drugs Taken Prior to Gestation				When?
Family Hx. of Congenital / Hereditary Defects:				
Estimated Gestation:		Abnormal Placenta:		Cesarean Section:
PHYSICAL EXAM:				
Birth Weight	Present Weight	Length	Head Circumference	Chest
Head			Eyes	
Ears			Nose	
Mouth			Neck	
Heart			Abdomen	
Umbilicus			Extremities	
Genitalia			Cry	
Neurological			Tumors	
Other:				
Provisional Diagnosis: _____				
Chromosomal Analysis Result: _____				
Autopsy (date and diagnosis): _____				
Surgery _____				
Comments _____				
Recorded by: _____ Date: _____				

WORK SHEET - DEVELOPMENTAL (BACK)

FIGURE 1b. Record Form in Use From 3/69-9/69

(1-4) CDCS		<small>MEDICAL RECORD. This form contains medical information the disclosure or release of which is restricted by 5 U.S.C. 552, (b) (5); 45 CFR Part 5.</small>		<small>DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE PUBLIC HEALTH SERVICE HEALTH SERVICES AND HOSPITAL STATISTICS ADMINISTRATION National Center for Congenital Defects Control Atlanta, Georgia 30333</small>	
(15-61) STATE		CONGENITAL DEFECTS CASE RECORD			
(7-11) CDC #		INFORMATION FROM HOSPITAL RECORDS			
PATIENT'S NAME First, Middle (12-21) LAST			MOTHER'S NAME First, (Maiden) LAST		
RESIDENCE Number and Street		(22-25) CITY			
(26-28) COUNTY		(29-32) CENSUS TRACT		COORDINATES (NCDC use only) (33-35) (36-38)	
(39) RACE <input type="checkbox"/> 1 WHITE <input type="checkbox"/> 2 NEGRO <input type="checkbox"/> 9 NOT STATED		CARD 2: REPEAT COLS. 1-11			
OTHER _____		CODE (12-14) CONGENITAL DEFECTS			
(40) SEX <input type="checkbox"/> 1 MALE <input type="checkbox"/> 2 FEMALE <input type="checkbox"/> 9 NOT STATED		(15-17)			
(41-42) AGE AT DIAGNOSIS _____ months		(18-20)			
DATE OF (43-46) LAST MENSTRUAL PERIOD		(21-23)			
mo. day yr.		(24-26)			
(47-50) BIRTH		(27-29)			
mo. day yr.		(30-32)			
(51-54) DIAGNOSIS		(33-35)			
mo. day yr.		(36-38)			
(55-58) DEATH		(39-41)			
mo. day yr.		(42-44)			
(59-62) BIRTH WEIGHT _____ GRAMS		(45-47)			
(63-64) DURATION OF PREGNANCY _____ weeks		NUMBER OF DEFECTS BY SYSTEM		(62) OUTCOME OF DELIVERY	
(65) FULL TERM _____ (66) PREMATURE _____		(48) CNS _____ (53) GU _____		<input type="checkbox"/> 1 LIVEBORN <input type="checkbox"/> 9 NOT STATED	
(67) ABORTIONS _____ (68) STILLBORN _____		(49) CVS _____ (54) MS _____		<input type="checkbox"/> 2 STILLBORN	
(69) MULTIPLE BIRTHS _____		(50) FACE _____ (55) SYND. _____		(63-65) HOSPITAL _____	
(70) TOTAL PREGNANCIES _____		(51) RESP _____ (56) MISC _____		(66) UNUSUAL FEATURES _____	
(71-72) AGE OF MOTHER AT BIRTH _____ years		(52) GI _____ (57-58) TOTAL _____			
(73) CHURCH ATTENDED BY MOTHER		(59) SEVERITY OF DEFECT			
<input type="checkbox"/> 1 PROTESTANT <input type="checkbox"/> 8 NONE		<input type="checkbox"/> 1 MAJOR, ONE OR MORE			
<input type="checkbox"/> 2 CATHOLIC <input type="checkbox"/> 9 NOT STATED		<input type="checkbox"/> 2 MINOR ONLY			
<input type="checkbox"/> 3 JEWISH		(60) CYTOGENETICS			
<input type="checkbox"/> 4 OTHER _____		<input type="checkbox"/> 1 NORMAL <input type="checkbox"/> 4 NOT DONE			
ORAL CONTRACEPTIVES USED		<input type="checkbox"/> 2 ABNORMAL <input type="checkbox"/> 9 NOT STATED			
(74) <input type="checkbox"/> 1 YES <input type="checkbox"/> 2 NO <input type="checkbox"/> 9 NOT STATED		<input type="checkbox"/> 3 PENDING			
(7) IF YES, TYPE _____		(61) AUTOPSY			
		<input type="checkbox"/> 1 YES <input type="checkbox"/> 2 NO <input type="checkbox"/> 9 NOT STATED			
Name of Physician _____			Death Certificate No. _____		
Address _____			Date of Report _____		
HSM 4.249 (NCDC) REV. 3-69			Form Approved Budget Bureau No 58-R1098		

FIGURE 1b (cont'd). Record Form in Use From 3/69-9/69

REVIEW OF MEDICAL RECORD				
NAME OF HOSPITAL		HOSPITAL NUMBER		DATE OF ADMISSION
CHURCH ATTENDED		NEXT OF KIN OR CLOSE CONTACT		HOME PHONE
MATERNAL AGE AT BIRTH		PATERNAL AGE AT BIRTH		NUMBER OF SIBS (F/M)
AGES OF SIBS		MISCARRIAGES		
MATERNAL ILLNESS DURING GESTATION				WHEN?
MATERNAL RADIATION DURING GESTATION				WHEN?
DRUGS TAKEN DURING GESTATION				WHEN?
DRUGS TAKEN PRIOR TO GESTATION				WHEN?
FAMILY HX. OF CONGENITAL/HEREDITARY DEFECTS:				
LMP:	EDC:	ABNORMAL PLACENTA:	CESAREAN SECTION:	
PHYSICAL EXAMINATION				
BIRTH WEIGHT	PRESENT WEIGHT	LENGTH	HEAD CIRCUMFERENCE	CHEST
HEAD		EYES		
EARS		NOSE		
MOUTH		NECK		
HEART		ABDOMEN		
UMBILICUS		EXTREMITIES		
GENITALIA		CRY		
NEUROLOGICAL		TUMORS		
OTHER				
Provisional Diagnosis: _____				
Chromosomal Analysis Result: _____				
Autopsy (date and diagnosis): _____				
Surgery: _____				
Comments: _____				
Recorded by: _____ Date: _____				

HSM 4.249 (NCDC) (BACK)
REV. 3.69

FIGURE 1c. Record Form in Use From 10/69-5/72

**CONGENITAL DEFECTS CASE RECORD
INFORMATION FROM HOSPITAL RECORDS**

MEDICAL RECORD. This form contains medical information the disclosure or release of which is restricted by 5 U.S.C. 552 (b) (6), 45 CFR Part 3.

DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
PUBLIC HEALTH SERVICE
HEALTH SERVICES AND STATISTICS ADMINISTRATION
NATIONAL CENTER FOR HUMAN GROWTH DEVELOPMENT
Molecular Biology Program
Atlanta, Georgia 30333

(1-4) CDCS
(5-6) STATE
(7-11) NCDC #

PAT: P'S NAME First, Middle (12-21) LAST MOTHER'S NAME First, (Maiden) LAST

RESIDENCE Number and Street (22-25) CITY

(26-28) COUNTY (29-32) CENSUS TRACT COORDINATES (NCDC use only) (33-35) (36-38)

(39) RACE 1 WHITE 2 NEGRO
 9 NOT STATED

OTHER _____

(40) SEX 1 MALE 2 FEMALE
 9 NOT STATED

(41-42) AGE AT DIAGNOSIS _____ days _____ months _____ years

DATE OF

(43-46) LAST MENSTRUAL PERIOD _____ mo. _____ day _____ yr.

(47-50) BIRTH _____ mo. _____ day _____ yr.

(51-54) DIAGNOSIS _____ mo. _____ day _____ yr.

(55-58) DEATH _____ mo. _____ day _____ yr.

(59-62) BIRTH WEIGHT _____ GRAMS

(63-64) DURATION OF PREGNANCY _____ weeks

PREVIOUS PREGNANCIES

(65) FULL TERM _____ (66) PREMATURE _____
(67) ABORTIONS _____ (68) STILLBORN _____
(69) MULTIPLE BIRTHS _____
(70) TOTAL PREGNANCIES _____

(71-72) AGE OF MOTHER AT BIRTH _____ years

(73) CHURCH ATTENDED BY MOTHER
 1 PROTESTANT 8 NONE
 2 CATHOLIC 9 NOT STATED
 3 JEWISH
 4 OTHER _____

ORAL CONTRACEPTIVES USED

(74) 1 YES 2 NO 9 NOT STATED

(75) IF YES, TYPE _____

Death Certificate No. _____

Date of Report _____

NUMBER OF DEFECTS BY SYSTEM

(148) CNS _____ (153) GU _____
(149) CVS _____ (154) MS _____
(150) FACE _____ (155) SYND. _____
(151) RESP _____ (156) MISC _____
(152) GI _____ (157-58) TOTAL _____

(159) SEVERITY OF DEFECT
 1 MAJOR, ONE OR MORE
 2 MINOR ONLY

(160) CYTOGENETICS
 1 NORMAL 4 NOT DONE
 2 ABNORMAL 9 NOT STATED
 3 PENDING

(161) AUTOPSY
 1 YES, NOT REVIEWED
 2 NO
 3 YES, NO CHANGE IN DIAGNOSIS
 4 YES, CHANGE OR ADDITION
 9 NOT STATED

(12-14) CODE _____
(112-144) CONGENITAL DEFECTS _____

(115-171) _____
(118-201) _____
(121-233) _____
(124-261) _____
(127-291) _____
(130-321) _____
(133-351) _____
(136-381) _____
(139-411) _____
(142-441) _____
(145-471) _____

(162) OUTCOME OF DELIVERY
 1 LIVEBORN 9 NOT STATED
 2 STILLBORN

(163-65) HOSPITAL OF BIRTH _____

(166-68) HOSPITAL OF WORK-UP _____

(69) ADDITIONAL DIAGNOSIS ADDED
 1 UNDER 28 DAYS OF AGE
 2 1 MONTH TO 6 MONTHS
 3 6 MONTHS TO 1 YEAR
 4 OVER 1 YEAR
 9 NOT STATED

(70) UNUSUAL FEATURES _____

HSM 4.249 (NCDC)
REV. 9-69

Form Approved
Budget Bureau No 58-R1098

FIGURE 1c (cont'd). Record Form in Use From 10/69-5/72

REVIEW OF MEDICAL RECORD

FATHER'S NAME (First, Middle, Last)		PATERNAL AGE AT BIRTH	HOME PHONE
NAME OF CHURCH ATTENDED	FATHER'S OCCUPATION		ZIP CODE
NAMES OF HOSPITALS	HOSPITAL NUMBERS MOTHER:	INFANT:	
NAMES OF PHYSICIANS (Attending, Consultants, Contacts, Etc.)			

MATERNAL ILLNESS DURING GESTATION	WHEN?
MATERNAL RADIATION DURING GESTATION	WHEN?
DRUGS TAKEN DURING GESTATION	WHEN?
DRUGS TAKEN PRIOR TO GESTATION	WHEN?
FAMILY HX. OF CONGENITAL/HEREDITARY DEFECTS:	

PHYSICAL EXAMINATION

Provisional Diagnosis: _____

Chromosomal Analysis Result: _____

Autopsy (date and diagnosis): _____

Surgery: _____

Comments: _____

Recorded by: _____ Date: _____

HSM 4, 249 (NCDC) (BACK)
REV. 9-69

FIGURE 1d. Record Form in Use From 6/72-9/79

CONGENITAL DEFECTS CASE RECORD INFORMATION FROM HOSPITAL RECORDS		FORM APPROVED OMB 10-68-R1098																										
(1-4) CDCS (5-6) STATE 11		DEPARTMENT OF HEALTH, EDUCATION AND WELFARE PUBLIC HEALTH SERVICE HEALTH SERVICES AND MENTAL HEALTH ADMINISTRATION CENTER FOR DISEASE CONTROL EPI. & PREVENTION PROGRAM ATLANTA, GEORGIA 30333																										
(7-11) CDC # PATIENT'S NAME First, Middle (12-21) LAST MOTHER'S NAME First, (Maiden) LAST																												
RESIDENCE AT BIRTH (Number and Street)		(22-25) CITY ZIP CODE																										
(26-28) COUNTY	(33-37) CENSUS TRACT (1970)	HOME PHONE																										
(39) RACIAL OR ETHNIC GROUPS <input type="checkbox"/> 1 WHITE <input type="checkbox"/> 6 HAWAIIAN <input type="checkbox"/> 2 NEGRO <input type="checkbox"/> 7 OTHER <input type="checkbox"/> 3 SPANISH SURNAME <input type="checkbox"/> 4 INDIAN <input type="checkbox"/> 9 UNKNOWN <input type="checkbox"/> 5 ORIENTAL		CARD 2. REPEAT COLS. 1-11 <table border="1"> <thead> <tr> <th>CODE</th> <th>CONGENITAL DEFECTS</th> </tr> </thead> <tbody> <tr><td>(12-14)</td><td></td></tr> <tr><td>(15-17)</td><td></td></tr> <tr><td>(18-20)</td><td></td></tr> <tr><td>(21-23)</td><td></td></tr> <tr><td>(24-26)</td><td></td></tr> <tr><td>(27-29)</td><td></td></tr> <tr><td>(30-32)</td><td></td></tr> <tr><td>(33-35)</td><td></td></tr> <tr><td>(36-38)</td><td></td></tr> <tr><td>(39-41)</td><td></td></tr> <tr><td>(42-44)</td><td></td></tr> <tr><td>(45-47)</td><td></td></tr> </tbody> </table>	CODE	CONGENITAL DEFECTS	(12-14)		(15-17)		(18-20)		(21-23)		(24-26)		(27-29)		(30-32)		(33-35)		(36-38)		(39-41)		(42-44)		(45-47)	
CODE	CONGENITAL DEFECTS																											
(12-14)																												
(15-17)																												
(18-20)																												
(21-23)																												
(24-26)																												
(27-29)																												
(30-32)																												
(33-35)																												
(36-38)																												
(39-41)																												
(42-44)																												
(45-47)																												
(40) SEX <input type="checkbox"/> 1 MALE <input type="checkbox"/> 2 FEMALE <input type="checkbox"/> 9 NOT STATED																												
(41-42) AGE AT DIAGNOSIS DATE OF																												
(43-46) LMP _____ mo. _____ day _____ yr. EDC _____ mo. _____ day _____ yr.																												
DATE OF (47-50) BIRTH _____ mo. _____ day _____ yr.																												
DATE OF (51-54) DIAGNOSIS _____ mo. _____ day _____ yr.																												
(55-58) DEATH _____ mo. _____ day _____ yr.																												
(59-62) BIRTH WEIGHT _____ GRAMS OR _____ LBS. _____ OUNCES																												
(63-64) DURATION OF PREGNANCY _____ weeks																												
PREVIOUS PREGNANCIES (65) FULL TERM _____ (66) PREMATURE _____ (67) ABORTIONS _____ (68) STILLBORN _____ (69) MULTIPLE BIRTHS _____																												
(70) TOTAL PREGNANCIES _____ (Present not included)																												
(71-72) AGE OF MOTHER AT BIRTH _____ years																												
(73) CHURCH ATTENDED BY MOTHER <input type="checkbox"/> 1 PROTESTANT <input type="checkbox"/> 8 NONE <input type="checkbox"/> 2 CATHOLIC <input type="checkbox"/> 9 NOT STATED <input type="checkbox"/> 3 JEWISH <input type="checkbox"/> 4 OTHER																												
(79-80) 11		(62) OUTCOME OF DELIVERY <input type="checkbox"/> 1 LIVEBORN <input type="checkbox"/> 9 NOT STATED <input type="checkbox"/> 2 STILLBORN																										
		(63-65) HOSPITAL OF BIRTH																										
		(66-68) HOSPITAL OF WORK-UP																										
(48) MULTIPLE <input type="checkbox"/> 1 YES <input type="checkbox"/> 2 NO (49) NUMBER OF MAJOR _____ (50) NUMBER OF MINOR _____ (55) SYNDROME <input type="checkbox"/> 1 YES <input type="checkbox"/> 2 NO (57-58) TOTAL _____ (Exclude Syndromes and Multiples)																												
(59) TO BE INTERVIEWED <input type="checkbox"/> 1 YES <input type="checkbox"/> 2 NO																												
(60) CYTOGENETICS <input type="checkbox"/> 1 NORMAL <input type="checkbox"/> 4 NOT DONE <input type="checkbox"/> 2 ABNORMAL <input type="checkbox"/> 9 NOT STATED <input type="checkbox"/> 3 PENDING																												
(61) AUTOPSY <input type="checkbox"/> 1 YES, NOT REVIEWED <input type="checkbox"/> 2 NO <input type="checkbox"/> 3 YES, NO CHANGE IN DIAGNOSIS <input type="checkbox"/> 4 YES, CHANGE OR ADDITION <input type="checkbox"/> 9 NOT STATED																												
HSM 4.249A (CDC) REV. 5-72		(79-80) 12																										
(SEE REVERSE)		MEDICAL RECORD. This form contains medical information the disclosure or release of which is restricted by 5 U.S.C. 552, (b)(1) & 45 CFR Part 162.																										

FIGURE 1d (cont'd). Record Form in Use From 6/72-9/79

ADDITIONAL IDENTIFYING DATA

FATHER'S NAME (First, Middle, Last)	PATERNAL AGE AT BIRTH	DEATH CERTIFICATE NO.
-------------------------------------	-----------------------	-----------------------

NAMES OF HOSPITALS	HOSPITAL NUMBERS MOTHER:	INFANT:
--------------------	-----------------------------	---------

NAMES OF PHYSICIANS (Pediatrician, Obstetrician and Others)

COMMENTS

RECORDED BY	DATE
-------------	------

--	--

FIGURE 1e. Record Form in Use From 10/79-4/80

DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE PUBLIC HEALTH SERVICE CENTER FOR DISEASE CONTROL BUREAU OF EPIDEMIOLOGY ATLANTA, GEORGIA 30333 (1-4) CDCS		CONGENITAL DEFECTS CASE RECORD Information From Hospital Records (Spaces shaded and items asterisked for Office Use Only)		FORM APPROVED OMB NO. 68-R1096
(5-6) STATE 11		(7-11) CDC # *		INFORMATION RECORDED BY: _____
PI NTS NAME First, Middle (12-21) Last _____		MOTHER'S NAME First, (Maiden) Last _____		
RESIDENCE AT BIRTH (Number and Street) _____		FATHER'S NAME: First, Initial, LAST _____		PAT. AC I AT BIRTH: _____
(22-25) CITY _____	(26-28) COUNTY _____	ZIP CODE _____	(33-37) CENSUS TRACT (1970)* _____	HOME PHONE _____
(39) RACIAL OR ETHNIC GROUPS <input type="checkbox"/> 1. WHITE, NOT HISP <input type="checkbox"/> 2. BLACK, NOT HISP <input type="checkbox"/> 3. HISPANIC <input type="checkbox"/> 4. AMER IND OR ALASKA NATIVE <input type="checkbox"/> 5. ASIAN OR PACIFIC ISLANDER <input type="checkbox"/> 9. UNKNOWN		CARD 2: REPEAT COLS. 1-11		
		CODE* (12-14) _____	CONGENITAL DEFECTS _____	
		(15-17) _____		
(40) SEX <input type="checkbox"/> 1 MALE <input type="checkbox"/> 2 FEMALE <input type="checkbox"/> 9 NOT STATED		(18-20) _____		
		(21-23) _____		
(41-42) AGE AT DIAGNOSIS _____		(24-26) _____		
DATE OF		(27-29) _____		
(43-46) LMP _____ mo. day yr.		(30-32) _____		
EOC _____ mo. day yr.		(33-35) _____		
DATE OF		(36-38) _____		
(47-50) BIRTH _____ mo. day yr.		(39-41) _____		
DA JF _____		(42-44) _____		
(51-54) DIAGNOSIS _____ mo. day yr.		(45-47) _____		
(55-58) DEATH _____ mo. day yr.				
(59-62) BIRTH WEIGHT _____ GRAMS OR _____ LBS. _____ OUNCES		DEFECTS CATEGORY* (48) MULTIPLE <input type="checkbox"/> 1 YES <input type="checkbox"/> 2 NO		(62) OUTCOME OF DELIVERY <input type="checkbox"/> 1 LIVEBORN <input type="checkbox"/> 9 NOT STATED <input type="checkbox"/> 2 STILLBORN
(63-64) DURATION OF PREGNANCY* _____ weeks		(49) NUMBER OF MAJOR _____	(50) NUMBER OF MINOR _____	(63-65) HOSPITAL OF BIRTH _____
PREVIOUS PREGNANCIES		(55) SYNDROME <input type="checkbox"/> 1 YES <input type="checkbox"/> 2 NO	(57-58) TOTAL _____ (Exclude Syndromes and Multiples)	(66-68) HOSPITAL OF DIAGNOSIS _____
(65) FULL TERM _____ (66) PREMATURE _____	(67) ABORTIONS _____ (68) STILLBORN _____	(59) TO BE INTERVIEWED <input type="checkbox"/> 1 YES <input type="checkbox"/> 2 NO	(60) CYTOGENETICS <input type="checkbox"/> 1 NORMAL <input type="checkbox"/> 4 NOT DONE <input type="checkbox"/> 2 ABNORMAL <input type="checkbox"/> 9 NOT STATED <input type="checkbox"/> 3 PENDING	(69) PLURALITY <input type="checkbox"/> 1 SINGLE <input type="checkbox"/> 2 TWIN <input type="checkbox"/> 3 OTHER MULTIPLE BIRTH
(69) MULTIPLE BIRTHS _____	(70) TOTAL PREGNANCIES _____ (Present not included)	(61) AUTOPSY <input type="checkbox"/> 1 YES, NOT REVIEWED <input type="checkbox"/> 2 NO <input type="checkbox"/> 3 YES, NO CHANGE IN DIAGNOSIS <input type="checkbox"/> 4 YES, CHANGE OR ADDITION <input type="checkbox"/> 9 NOT STATED	(70) CO-TWIN CONCORDANCE <input type="checkbox"/> 1 CO-TWIN NORMAL <input type="checkbox"/> 2 CO-TWIN WITH SAME DEFECT <input type="checkbox"/> 3 CO-TWIN WITH OTHER DEFECT	(70) CO-TWIN CONCORDANCE
(71-72) AGE OF MOTHER AT BIRTH _____ years	(73) RELIGIOUS PREFERENCE OF MOTHER <input type="checkbox"/> 1 PROTESTANT <input type="checkbox"/> 8 NONE <input type="checkbox"/> 2 CATHOLIC <input type="checkbox"/> 9 NOT STATED <input type="checkbox"/> 3 JEWISH <input type="checkbox"/> 4 OTHER _____			HEAD CIRCUMFERENCE: _____
(79-80) 11				INFANT TRANSFERRED FROM HOSPITAL OF BIRTH ON (Date): _____
				TO: _____
				(79-80) 12

CDC 4.249A REV. 9-79

This report is authorized by law (Public Health Service Act, 42 USC 2411) while your response is voluntary, your cooperation is necessary for the understanding and control of the disease.

(SEE REVERSE)

FIGURE 1e (cont'd). Record Form in Use From 10/79-4/80

ADDITIONAL IDENTIFYING DATA

NAMES OF HOSPITALS

HOSPITAL NUMBERS

Mother :

Infant:

_____	_____	_____
_____	_____	_____

NAMES OF PHYSICIANS: (Include physician's initial or first name, when available)

Obstetrician: _____

Pediatrician: _____

Others: _____

I. FAMILY HISTORY

II. MATERNAL HISTORY

A. PREVIOUS Hx:

B. Present Pregnancy:

III. OTHER INFORMATION OR COMMENTS:

CDC 4.249A (BACK) REV. 9-79

FIGURE 1f. Record Form in Use From 5/80-12/80

DEPARTMENT OF HEALTH AND HUMAN SERVICES PUBLIC HEALTH SERVICE CENTER FOR DISEASE CONTROL DIVISION OF FETAL MEDICINE ATLANTA, GEORGIA 30333 (1-4) CDCS		CONGENITAL DEFECTS CASE RECORD Information From Hospital Records (Spaces shaded and items asterisked for Office Use Only)		FORM APPROVED OMB NO. 09-R1096
(5-6) STATE 11		(7-11) CDC # *		INFORMATION RECORDED BY: _____ Name: _____ Date: _____
PATIENT'S NAME First, Middle (12-21) Last		MOTHER'S NAME First, (Maiden) Last		
RESIDENCE AT BIRTH (Number and Street)		FATHER'S NAME: First, Initial, LAST		PAT. AGE AT BIRTH: _____
(22-25) CITY		(26-28) COUNTY	ZIP CODE	(33-37) CENSUS TRACT (1970)* HOME PHONE
(39) RACIAL OR ETHNIC GROUPS				
___ 1. WHITE, NOT HISP ___ 2. BLACK, NOT HISP ___ 3. HISPANIC ___ 4. AMER IND OR ALASKA NATIVE ___ 5. ASIAN OR PACIFIC ISLANDER ___ 9. UNSPECIFIED		CODE* CONGENITAL DEFECTS		
(40) SEX <input type="checkbox"/> 1 MALE <input type="checkbox"/> 2 FEMALE <input type="checkbox"/> 9 NOT STATED		(12-14) _____ (15-17) _____ (18-20) _____ (21-23) _____ (24-26) _____ (27-29) _____ (30-32) _____ (33-35) _____ (36-38) _____ (39-41) _____ (42-44) _____ (45-47) _____		
(41-42) AGE AT DIAGNOSIS _____ DATE OF		(48) MULTIPLE <input type="checkbox"/> 1 YES <input type="checkbox"/> 2 NO		
(43-46) LMP _____ mo. day yr. EDC _____ mo. day yr.		(49) NUMBER OF MAJOR _____ (50) NUMBER OF MINOR _____		
DATE OF (47-50) BIRTH _____ mo. day yr.		(55) SYNDROME <input type="checkbox"/> 1 YES <input type="checkbox"/> 2 NO (57-58) TOTAL _____ (Exclude Syndromes and Multiples)		
DATE OF (51-54) DIAGNOSIS _____ mo. day yr.		(59) TO BE INTERVIEWED <input type="checkbox"/> 1 YES <input type="checkbox"/> 2 NO		
(55-58) DEATH _____ mo. day yr.		(60) CYTOGENETICS <input type="checkbox"/> 1 NORMAL <input type="checkbox"/> 4 NOT DONE <input type="checkbox"/> 2 ABNORMAL <input type="checkbox"/> 9 NOT STATED <input type="checkbox"/> 3 PENDING		
(59-62) BIRTH WEIGHT _____ GRAMS OR _____ LBS. _____ OUNCES		(61) AUTOPSY <input type="checkbox"/> 1 YES, NOT REVIEWED <input type="checkbox"/> 2 NO <input type="checkbox"/> 3 YES, NO CHANGE IN DIAGNOSIS <input type="checkbox"/> 4 YES, CHANGE OR ADDITION <input type="checkbox"/> 9 NOT STATED		
(63-64) DURATION OF PREGNANCY* _____ weeks		(62) OUTCOME OF DELIVERY <input type="checkbox"/> 1 LIVEBORN <input type="checkbox"/> 9 NOT STATED <input type="checkbox"/> 2 STILLBORN		
PREVIOUS PREGNANCIES (65) FULL TERM _____ (66) PREMATURE _____ (67) ABORTIONS _____ (68) STILLBORN _____ (69) MULTIPLE BIRTHS _____		(63-65) HOSPITAL OF BIRTH _____ (66-68) HOSPITAL OF DIAGNOSIS _____ (69) PLURALITY <input type="checkbox"/> 1 SINGLE <input type="checkbox"/> 2 TWIN <input type="checkbox"/> 3 OTHER MULTIPLE BIRTH		
(70) TOTAL PREGNANCIES (Present not included) _____ (71-72) AGE OF MOTHER AT BIRTH _____ years		(70) CO-TWIN CONCORDANCE <input type="checkbox"/> 1 CO-TWIN NORMAL <input type="checkbox"/> 2 CO-TWIN WITH SAME DEFECT <input type="checkbox"/> 3 CO-TWIN WITH OTHER DEFECT		
(73) RELIGIOUS PREFERENCE OF MOTHER <input type="checkbox"/> 1 PROTESTANT <input type="checkbox"/> 8 NONE <input type="checkbox"/> 2 CATHOLIC <input type="checkbox"/> 9 NOT STATED <input type="checkbox"/> 3 JEWISH <input type="checkbox"/> 4 OTHER _____		HEAD CIRCUMFERENCE: _____ INFANT TRANSFERRED FROM HOSPITAL OF BIRTH ON (Date): _____ TO: _____		
(79-80) 11		(71-80) 12		

CDC 4.249A REV.4-80

This report is authorized by law (Public Health Service Act, 42 USC 2411) which requires your cooperation in voluntary your cooperation is necessary for the understanding and control of the disease.

(SEE REV. 35E)

FIGURE 1f (cont'd). Record Form in Use From 5/80-12/80

ADDITIONAL IDENTIFYING DATA

NAMES OF HOSPITALS

HOSPITAL NUMBERS

Mother :

Infant:

NAMES OF PHYSICIANS: (Include physician's initial or first name, when available)

Obstetrician:

Pediatrician:

Others:

I. FAMILY HISTORY

II. MATERNAL HISTORY

A. PREVIOUS Hx:

B. Present Pregnancy:

III. OTHER INFORMATION OR COMMENTS:

CDC 4.249A (BACK) REV. 4-80

FIGURE 2. Power of the 1 Degree of Freedom Chi-Square Test, 2-Tailed, Uncorrected, Alpha = 0.05, Case-Control Study. Prevalence of Vietnam Service Among Fathers of Control Group Babies = 10%

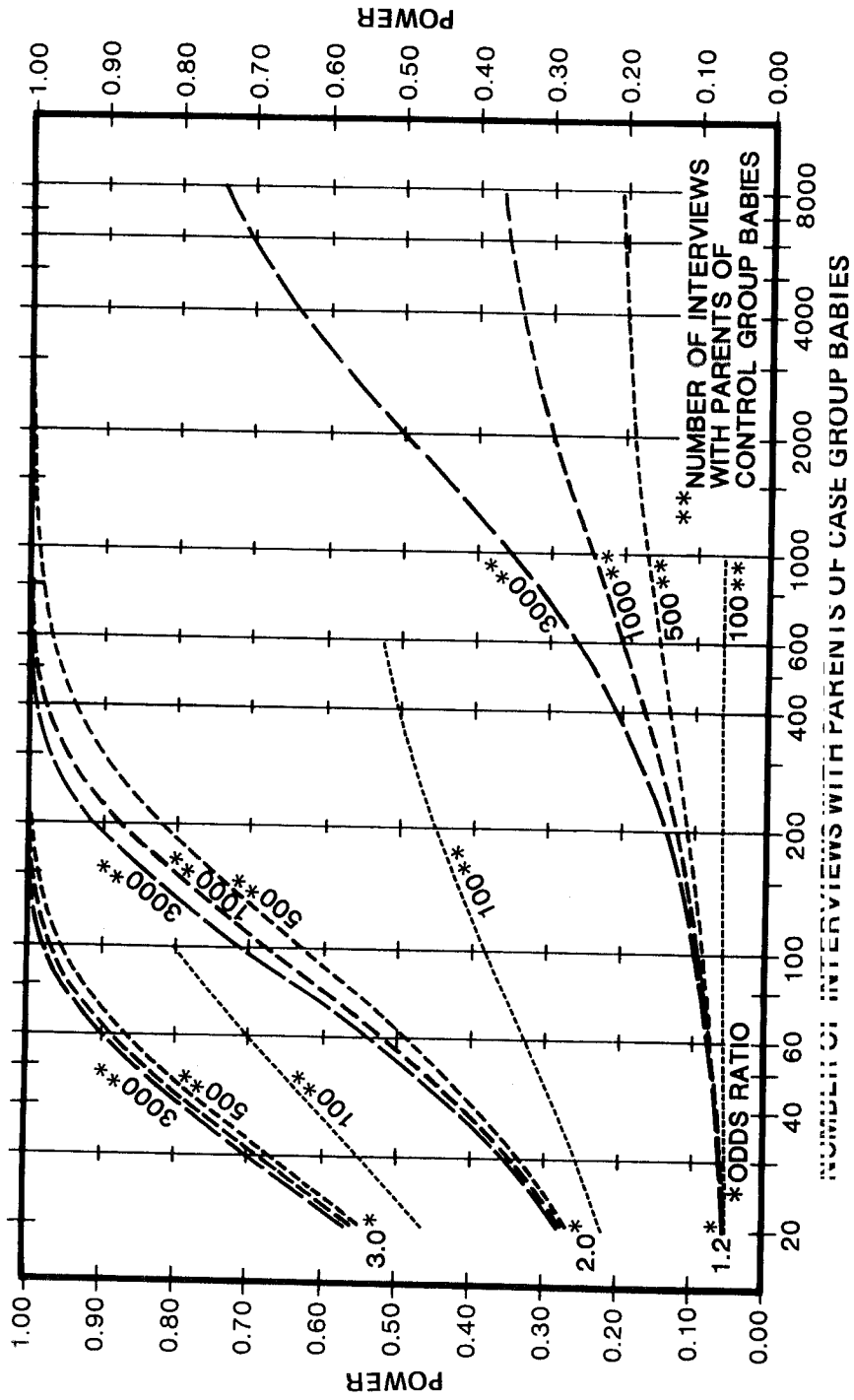


FIGURE 3. Power of the 1 Degree of Freedom Chi-Square Test, 2-Tailed, Uncorrected, Alpha = 0.05, Case-Control Study. Prevalence of Vietnam Service Among Fathers of Control Group Babies = 20%

