

APPENDIX D
Childhood cancer risk factors, Wilmington, 1987-2000

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SECTION F: MATERNAL MEDICAL HISTORY

All Cancers							Leukemia/Lymphoma						
Cases		Controls		OR ^a	95% CI ^b	P-Value	Cases		Controls		OR ^a	95% CI ^b	P-Value
n	(%)	n	(%)				n	(%)	n	(%)			

Maternal consumption of medication in the month prior to pregnancy, during pregnancy, or while nursing (F1)^c

Yes	15 (83)	66 (89)	0.87	(0.09, 8.6)	0.90	9 (82)	41 (91)	NC	NC	NC
No	1 (5.6)	3 (4.1)	1.00			0 (0.0)	2 (4.4)			
Unknown	2 (11)	5 (6.8)				2 (18)	2 (4.4)			
Total	18 (100)	74 (100)				11 (100)	45 (100)			

Questions F2 through F8 refer to one month prior to pregnancy, during pregnancy, or while nursing

Maternal consumption of antihistamines, decongestants, or allergy medication (F2)^c

Yes	2 (11)	14 (19)	0.82	(0.15, 4.4)	0.82	2 (18)	8 (18)	2.1	(0.27, 16)	0.49
No	13 (72)	47 (64)	1.00			7 (64)	30 (67)	1.0		
Unknown	3 (17)	13 (18)				2 (18)	7 (16)			
Total	18 (100)	74 (100)				11 (100)	45 (100)			

Maternal consumption of fertility drugs or other menstrual disorder drugs (F3)^c

Yes	0 (0.0)	3 (4.1)	NC	NC	NC	0 (0.0)	3 (6.7)	NC	NC	NC
No	15 (83)	62 (84)				9 (82)	38 (84)			
Unknown	3 (17)	9 (12)				2 (18)	4 (8.9)			
Total	18 (100)	74 (100)				11 (100)	45 (100)			

SECTION F: MATERNAL MEDICAL HISTORY (Continued)

All Cancers						Leukemia/Lymphoma							
Cases		Controls		OR ^a	95% CI ^b	P-Value	Cases		Controls		OR ^a	95% CI ^b	P-Value
n	(%)	n	(%)				n	(%)	n	(%)			

Maternal consumption of prenatal vitamins (F4)^c

Yes	15 (83)	65 (88)	NC	NC	NC	9 (82)	41 (91)	NC	NC	NC
No	0 (0.0)	0 (0.0)				0 (0.0)	0 (0.0)			
Unknown	3 (16)	9 (12)				2 (18)	4 (8.9)			
Total	18 (100)	74 (100)				11 (100)	45 (100)			

Maternal consumption of pain relievers or anti-inflammatory drugs (F5)^c

Yes	8 (44)	33 (45)	1.3	(0.33, 5.4)	0.69	4 (36)	21 (47)	0.91	(0.13, 6.3)	0.92
No	7 (39)	31 (42)	1.0			5 (46)	20 (44)	1.00		
Unknown	3 (17)	10 (14)				2 (18)	4 (8.9)			
Total	18 (100)	74 (100)				11 (100)	45 (100)			

Maternal consumption of immunosuppressants or steroids (F6)^c

Yes	0 (0.0)	2 (2.7)	NC	NC	NC	0 (0.0)	2 (4.4)	NC	NC	NC
No	14 (78)	63 (85)				9 (82)	39 (87)			
Unknown	4 (22)	9 (12)				2 (18)	4 (8.9)			
Total	18 (100)	74 (100)				11 (100)	45 (100)			

Maternal consumption of diethylstilbestrol or DES (F7)^c

Yes	0 (0.0)	0 (0.0)	NC	NC	NC	0 (0.0)	0 (0.0)	NC	NC	NC
No	15 (83)	65 (88)				9 (82)	41 (91)			
Unknown	3 (17)	9 (12)				2 (18)	4 (8.9)			
Total	18 (100)	74 (100)				11 (100)	45 (100)			

SECTION F: MATERNAL MEDICAL HISTORY (Continued)

All Cancers						Leukemia/Lymphoma							
Cases		Controls		OR ^a	95% CI ^b	P-Value	Cases		Controls		OR ^a	95% CI ^b	P-Value
n	(%)	n	(%)				n	(%)	n	(%)			

Maternal consumption of antiepileptic drugs (i.e. dilantin, phenytoin, valproic acid) (F8)^c

Yes	0 (0.0)	0 (0.0)	NC	NC	NC	0 (0.0)	0 (0.0)	NC	NC	NC
No	15 (83)	65 (88)				9 (82)	41 (91)			
Unknown	3 (17)	9 (12)				2 (18)	4 (8.9)			
Total	18 (100)	74 (100)				11 (100)	45 (100)			

Questions F9 through F20 refer to the time during pregnancy

Mother had measles, mumps or rubeola, rubella, or German measles (F9)^c

Yes	0 (0.0)	0 (0.0)	NC	NC	NC	0 (0.0)	0 (0.0)	NC	NC	NC
No	16 (89)	70 (95)				9 (82)	43 (96)			
Unknown	2 (11)	4 (5.4)				2 (18)	2 (4.4)			
Total	18 (100)	74 (100)				11 (100)	45 (100)			

Mother had chicken pox or shingles (F10)^c

Yes	0 (0.0)	0 (0.0)	NC	NC	NC	0 (0.0)	0 (0.0)	NC	NC	NC
No	16 (89)	70 (95)				9 (82)	43 (96)			
Unknown	2 (11)	4 (5.4)				2 (18)	2 (4.4)			
Total	18 (100)	74 (100)				11 (100)	45 (100)			

Mother had cytomegalovirus infection (F11)^c

Yes	0 (0.0)	0 (0.0)	NC	NC	NC	0 (0.0)	0 (0.0)	NC	NC	NC
No	16 (89)	70 (95)				9 (82)	43 (96)			
Unknown	2 (11)	4 (5.4)				2 (18)	2 (4.4)			
Total	18 (100)	74 (100)				11 (100)	45 (100)			

SECTION F: MATERNAL MEDICAL HISTORY (Continued)

All Cancers						Leukemia/Lymphoma							
Cases		Controls		OR ^a	95% CI ^b	P-Value	Cases		Controls		OR ^a	95% CI ^b	P-Value
n	(%)	n	(%)				n	(%)	n	(%)			

Mother had mononucleosis (F12)^c

Yes	0 (0.0)	0 (0.0)	NC	NC	NC	0 (0.0)	0 (0.0)	NC	NC	NC
No	16 (89)	70 (95)				9 (82)	43 (96)			
Unknown	2 (11)	4 (5.4)				2 (18)	2 (4.4)			
Total	18 (100)	74 (100)				11 (100)	45 (100)			

Mother had high blood pressure (F13)^c

Yes	0 (0.0)	5 (6.8)	NC	NC	NC	0 (0.0)	3 (6.7)	NC	NC	NC
No	16 (89)	64 (87)				9 (82)	40 (89)			
Unknown	2 (11)	5 (6.8)				2 (18)	2 (4.4)			
Total	18 (100)	74 (100)				11 (100)	45 (100)			

Mother had influenza or common cold (F14)^c

Yes	4 (22)	28 (38)	0.37	(0.09, 1.6)	0.17	1 (9.1)	15 (33)	0.20	(0.02, 1.7)	0.14
No	11 (61)	35 (47)	1.00			7 (64)	23 (51)	1.00		
Unknown	3 (17)	11 (15)				3 (27)	7 (16)			
Total	18 (100)	74 (100)				11 (100)	45 (100)			

Mother had toxoplasmosis (F15)^c

Yes	0 (0.0)	0 (0.0)	NC	NC	NC	0 (0.0)	0 (0.0)	NC	NC	NC
No	16 (89)	69 (93)				9 (82)	42 (93)			
Unknown	2 (11)	5 (6.8)				2 (18)	3 (6.7)			
Total	18 (100)	74 (100)				11 (100)	45 (100)			

SECTION F: MATERNAL MEDICAL HISTORY (Continued)

All Cancers						Leukemia/Lymphoma							
Cases		Controls		OR ^a	95% CI ^b	P-Value	Cases		Controls		OR ^a	95% CI ^b	P-Value
n	(%)	n	(%)				n	(%)	n	(%)			

Mother had vaginal herpes infection (F16)^c

Yes	0 (0.0)	1 (1.4)	NC	NC	NC	0 (0.0)	1 (2.2)	NC	NC	NC
No	16 (89)	68 (92)				9 (82)	41 (91)			
Unknown	2 (11)	5 (6.8)				2 (18)	3 (6.7)			
Total	18 (100)	74 (100)				11 (100)	45 (100)			

Mother had bladder or kidney infection (F17)^c

Yes	0 (0.0)	3 (4.1)	NC	NC	NC	0 (0.0)	2 (4.4)	NC	NC	NC
No	16 (89)	66 (89)				9 (82)	40 (89)			
Unknown	2 (11)	5 (6.8)				2 (18)	3 (6.7)			
Total	18 (100)	74 (100)				11 (100)	45 (100)			

Mother had kidney or renal disease (F18)^c

Yes	0 (0.0)	0 (0.0)	NC	NC	NC	0 (0.0)	0 (0.0)	NC	NC	NC
No	16 (89)	69 (93)				9 (82)	42 (93)			
Unknown	2 (11)	5 (6.8)				2 (18)	3 (6.7)			
Total	18 (100)	74 (100)				11 (100)	45 (100)			

Mother had cold sores (F19)^c

Yes	0 (0.0)	3 (4.1)	NC	NC	NC	0 (0.0)	2 (4.4)	NC	NC	NC
No	16 (89)	63 (85)				9 (82)	38 (84)			
Unknown	2 (11)	8 (11)				2 (18)	5 (11)			
Total	18 (100)	74 (100)				11 (100)	45 (100)			

SECTION F: MATERNAL MEDICAL HISTORY (Continued)

All Cancers						Leukemia/Lymphoma							
Cases		Controls		OR ^a	95% CI ^b	P-Value	Cases		Controls		OR ^a	95% CI ^b	P-Value
n	(%)	n	(%)				n	(%)	n	(%)			

Mother had pneumonia (F20)^c

Yes	0 (0.0)	2 (2.7)	NC	NC	NC	0 (0.0)	0 (0.0)	NC	NC	NC
No	16 (89)	67 (91)				9 (82)	42 (93)			
Unknown	2 (11)	5 (6.8)				2 (18)	3 (6.7)			
Total	18 (100)	74 (100)				11 (100)	45 (100)			

Mother received diagnostic x-rays at some point between one month prior to pregnancy until child was born (F21)^c

Yes	0 (0.0)	8 (11)	NC	NC	NC	0 (0.0)	6 (13)	NC	NC	NC
No	15 (83)	61 (82)				8 (73)	36 (80)			
Unknown	3 (17)	5 (6.8)				3 (27)	3 (6.7)			
Total	18 (100)	74 (100)				11 (100)	45 (100)			

Mother received x-ray treatment or radiotherapy from two-years prior to birth until child's birth (F22)

Yes	0 (0.0)	0 (0.0)	NC	NC	NC	0 (0.0)	0 (0.0)	NC	NC	NC
No	16 (89)	69 (93)				9 (82)	42 (93)			
Unknown	2 (11)	5 (6.8)				2 (18)	3 (6.7)			
Total	18 (100)	74 (100)				11 (100)	45 (100)			

^a OR = Matched Odds Ratio

^b 95% CI = 95% Confidence Interval

^c Biological mothers only

†Marginally significant association with the odds of childhood cancer (p≤0.10)

‡Statistically significant association with the odds of childhood cancer (p≤0.05)

NC = Not calculated due to insufficient data (i.e., few discordant pairs)

Percentages may not sum due to rounding

SECTION G: INDEX CHILD PREGNANCY AND BIRTH

All Cancers						Leukemia/Lymphoma							
Cases		Controls		OR ^a	95% CI ^b	P-Value	Cases		Controls		OR ^a	95% CI ^b	P-Value
n	(%)	n	(%)				n	(%)	n	(%)			

Mother had any ultrasound/sonogram examinations while pregnant (G1)^c

Yes	14 (78)	52 (70)	3.9	(0.75, 20)	0.11	9 (82)	34 (76)	NC	NC	NC
No	2 (11)	17 (23)	1.00			0 (0.0)	8 (18)			
Unknown	2 (11)	5 (6.8)				2 (18)	3 (6.7)			
Total	18 (100)	74 (100)				11 (100)	45 (100)			

Mother had threatened miscarriage while pregnant (G2)^c

Yes	1 (5.6)	8 (11)	0.44	(0.05, 3.7)	0.45	0 (0.0)	4 (8.9)	NC	NC	NC
No	15 (83)	62 (84)	1.00			9 (82)	39 (87)			
Unknown	2 (11)	4 (5.4)				2 (18)	2 (4.4)			
Total	18 (100)	74 (100)				11 (100)	45 (100)			

Mother had pre-eclampsia or toxemia (G3)^c

Yes	0 (0.0)	5 (6.8)	NC	NC	NC	0 (0.0)	3 (6.7)	NC	NC	NC
No	16 (89)	65 (88)				9 (82)	40 (89)			
Unknown	2 (11)	4 (5.4)				2 (18)	2 (4.4)			
Total	18 (100)	74 (100)				11 (100)	45 (100)			

Mother had premature labor (G4)^c

Yes	2 (11)	4 (5.4)	2.63	(0.44, 16)	0.29	1 (9.1)	2 (4.4)	3.5	(0.22, 56)	0.38
No	14 (78)	66 (89)	1.00			8 (73)	41 (91)	1.00		
Unknown	2 (11)	4 (5.4)				2 (18)	2 (4.4)			
Total	18 (100)	74 (100)				11 (100)	45 (100)			

SECTION G: INDEX CHILD PREGNANCY AND BIRTH (Continued)

All Cancers							Leukemia/Lymphoma						
Cases		Controls		OR ^a	95% CI ^b	P-Value	Cases		Controls		OR ^a	95% CI ^b	P-Value
n	(%)	n	(%)				n	(%)	n	(%)			

Type of delivery at birth (G5)^c

Vaginal	12 (67)	55 (74)	0.72	(0.21, 2.5)	0.61	7 (64)	31 (69)	1.17	(0.22, 6.3)	0.86
Cesarean	4 (22)	15 (20)	1.00			2 (18)	12 (27)	1.00		
Unknown	2 (11)	4 (5.4)				2 (18)	2 (4.4)			
Total	18 (100)	74 (100)				11 (100)	45 (100)			

Child was one of a multiple birth (G6)^c

Yes	0 (0.0)	3 (4.1)	NC	NC	NC	0 (0.0)	2 (4.4)	NC	NC	NC
No	16 (89)	66 (89)				9 (82)	41 (91)			
Unknown	2 (11)	5 (6.8)				2 (18)	2 (4.4)			
Total	18 (100)	74 (100)				11 (100)	45 (100)			

Mother received any pain medication during labor or delivery (G7)^c

Yes	12 (67)	48 (65)	1.6	(0.44, 5.5)	0.49	8 (73)	30 (67)	3.4	(0.40, 30)	0.26
No	4 (22)	21 (28)	1.00			1 (9.1)	12 (27)	1.00		
Unknown	2 (11)	5 (6.8)				2 (18)	3 (6.7)			
Total	18 (100)	74 (100)				11 (100)	45 (100)			

Child had low birth weight (<2500 g) (G8)^c

Yes	3 (17)	3 (4.1)	12.7	(1.3, 123) †	0.03	2 (18.2)	2 (4.4)	NC	NC	NC
No	12 (67)	67 (91)	1.00			6 (55)	41 (91)			
Unknown	3 (17)	4 (5.4)				3 (27)	2 (4.4)			
Total	18 (100)	74 (100)				11 (100)	45 (100)			

SECTION G: INDEX CHILD PREGNANCY AND BIRTH (Continued)

All Cancers						Leukemia/Lymphoma							
Cases		Controls		OR ^a	95% CI ^b	P-Value	Cases		Controls		OR ^a	95% CI ^b	P-Value
n	(%)	n	(%)				n	(%)	n	(%)			

Child had high birth weight (>4000 g) (G8)^c

Yes	4 (22)	14 (19)	1.2	(0.31, 4.4)	0.82	2 (18)	11 (24)	0.77	(0.14, 4.3)	0.77
No	11 (61)	56 (76)	1.00			6 (55)	32 (71)	1.00		
Unknown	3 (17)	4 (5.4)				3 (27)	2 (4.4)			
Total	18 (100)	74 (100)				11 (100)	45 (100)			

Child given oxygen immediately after birth (G9)^c

Yes	3 (17)	3 (4.1)	13	(1.4, 130) ‡	0.02	2 (18)	3 (6.7)	8.6	(0.78, 95) †	0.08
No	11 (62)	60 (82)	1.00			5 (46)	37 (82)	1.00		
Unknown	4 (22)	11 (15)				4 (36)	5 (11)			
Total	18 (100)	74 (100)				11 (100)	45 (100)			

Child placed in incubator immediately after birth (G10)^c

Yes	5 (28)	11 (15)	2.8	(0.76, 10)	0.12	3 (27)	7 (16)	4.3	(0.66, 27)	0.13
No	10 (56)	57 (77)	1.00			5 (46)	34 (76)	1.00		
Unknown	3 (17)	6 (8.1)				3 (27)	4 (8.9)			
Total	18 (100)	74 (100)				11 (100)	45 (100)			

Child given IV immediately after birth (G11)^c

Yes	1 (5.6)	3 (4.1)	1.94	(0.17, 22)	0.59	0 (0.0)	3 (6.7)	NC	NC	NC
No	13 (72)	63 (85)	1.00			7 (64)	38 (84)			
Unknown	4 (22)	8 (11)				4 (36)	4 (8.9)			
Total	18 (100)	74 (100)				11 (100)	45 (100)			

SECTION G: INDEX CHILD PREGNANCY AND BIRTH (Continued)

All Cancers						Leukemia/Lymphoma							
Cases		Controls		OR ^a	95% CI ^b	P-Value	Cases		Controls		OR ^a	95% CI ^b	P-Value
n	(%)	n	(%)				n	(%)	n	(%)			

Child received blood transfusions or blood products immediately after birth (G12)^c

Yes	1 (5.6)	0 (0.0)	NC	NC	NC	0 (0.0)	0 (0.0)	NC	NC	NC
No	15 (83)	70 (95)				9 (82)	43 (96)			
Unknown	2 (11)	4 (5.4)				2 (18)	2 (4.4)			
Total	18 (100)	74 (100)				11 (100)	45 (100)			

Child received phototherapy immediately after birth (G13)^c

Yes	5 (28)	16 (22)	1.92	(0.55, 6.7)	0.31	2 (18)	9 (20)	1.9	(0.30, 12)	0.50
No	9 (50)	51 (69)	1.00			5 (46)	33 (73)	1.00		
Unknown	4 (22)	7 (9.5)				4 (36)	3 (6.7)			
Total	18 (100)	74 (100)				11 (100)	45 (100)			

Mother breastfed child (G14)^c

Yes	9 (50)	40 (54)	1.09	(0.37, 3.2)	0.88	5 (45)	24 (53)	1.3	(0.30, 5.9)	0.71
No	7 (39)	30 (41)	1.00			4 (37)	19 (42)	1.00		
Unknown	2 (11)	4 (5.4)				2 (18)	2 (4.4)			
Total	18 (100)	74 (100)				11 (100)	45 (100)			

Child drank baby formula during first year (G15)^c

Yes	14 (78)	60 (81)	1.8	(0.18, 17)	0.62	9 (82)	35 (78)	NC	NC	NC
No	1 (5.6)	8 (11)	1.00			0 (0.0)	6 (13)			
Unknown	3 (17)	6 (8.1)				2 (18)	4 (8.9)			
Total	18 (100)	74 (100)				11 (100)	45 (100)			

SECTION G: INDEX CHILD PREGNANCY AND BIRTH (Continued)

All Cancers						Leukemia/Lymphoma							
Cases		Controls		OR ^a	95% CI ^b	P-Value	Cases		Controls		OR ^a	95% CI ^b	P-Value
n	(%)	n	(%)				n	(%)	n	(%)			

Adverse Birth Event (G8 - G10)^c

Yes	8 (44)	11 (15)	6.0‡	(1.7, 21) ‡	0.005	5 (46)	7 (16)	16‡	(1.8, 140) ‡	0.01
No	6 (33)	55 (74)	1.00			2 (18)	33 (73)	1.00		
Unknown	4 (22)	8 (11)				4 (36)	5 (11)			
Total	18 (100)	74 (100)				11 (100)	45 (100)			

^a OR = Matched Odds Ratio

^b 95% CI = 95% Confidence Interval

^c Biological mothers only

†Marginally significant association with the odds of childhood cancer ($p \leq 0.10$)

‡Statistically significant association with the odds of childhood cancer ($p \leq 0.05$)

NC = Not calculated due to insufficient data (i.e., few discordant pairs)

Percentages may not sum due to rounding

SECTION H: INDEX CHILD'S MEDICAL HISTORY

All Cancers						Leukemia/Lymphoma							
Cases		Controls		OR ^a	95% CI ^b	P-Value	Cases		Controls		OR ^a	95% CI ^b	P-Value
n	(%)	n	(%)				n	(%)	n	(%)			

Questions H1 through H17 refer to illnesses and treatments prior to the reference date

Child had Infectious mononucleosis (H1)

Yes	2 (11)	4 (5.4)	2.3	(0.37, 14)	0.37	1 (9.1)	3 (6.7)	1.7	(0.14, 19)	0.68
No	16 (89)	70 (95)	1.00			10 (91)	42 (93)	1.00		
Unknown	0 (0.0)	0 (0.0)				0 (0.0)	0 (0.0)			
Total	18 (100)	74 (100)				11 (100)	45 (100)			

Child had chicken pox (H2)

Yes	11 (61)	45 (61)	1.1	(0.25, 4.6)	0.93	6 (55)	27 (60)	0.77	(0.10, 6.0)	0.80
No	7 (39)	29 (39)	1.00			5 (46)	18 (40)	1.00		
Unknown	0 (0.0)	0 (0.0)				0 (0.0)	0 (0.0)			
Total	18 (100)	74 (100)				11 (100)	45 (100)			

Child had measles, mumps or rubeola, or rubella or German measles (H3)

Yes	0 (0.0)	1 (1.4)	NC	NC	NC	0 (0.0)	0 (0.0)	NC	NC	NC
No	18 (100)	73 (99)				11 (100)	45 (100)			
Unknown	0 (0.0)	0 (0.0)				0 (0.0)	0 (0.0)			
Total	18 (100)	74 (100)				11 (100)	45 (100)			

Child had cytomegalovirus (H4)

Yes	0 (0.0)	0 (0.0)	NC	NC	NC	0 (0.0)	0 (0.0)	NC	NC	NC
No	17 (94)	73 (99)				11 (100)	44 (98)			
Unknown	1 (5.6)	1 (1.4)				0 (0.0)	1 (2.2)			
Total	18 (100)	74 (100)				11 (100)	45 (100)			

SECTION H: INDEX CHILD'S MEDICAL HISTORY (Continued)

	All Cancers						Leukemia/Lymphoma							
	Cases		Controls		OR ^a	95% CI ^b	P-Value	Cases		Controls		OR ^a	95% CI ^b	P-Value
	n	(%)	n	(%)				n	(%)	n	(%)			
Child had epilepsy (H5)														
Yes	0	(0.0)	0	(0.0)	NC	NC	NC	0	(0.0)	0	(0.0)	NC	NC	NC
No	18	(100)	74	(100)				11	(100)	45	(100)			
Unknown	0	(0.0)	0	(0.0)				0	(0.0)	0	(0.0)			
Total	18	(100)	74	(100)				11	(100)	45	(100)			
Child had any autoimmune disorder such as Sarcoidosis, lupus, juvenile rheumatoid arthritis (H6)														
Yes	0	(0.0)	0	(0.0)	NC	NC	NC	0	(0.0)	0	(0.0)	NC	NC	NC
No	18	(100)	74	(100)				11	(100)	45	(100)			
Unknown	0	(0.0)	0	(0.0)				0	(0.0)	0	(0.0)			
Total	18	(100)	74	(100)				11	(100)	45	(100)			
Child had HIV or AIDS (H7)														
Yes	0	(0.0)	0	(0.0)	NC	NC	NC	0	(0.0)	0	(0.0)	NC	NC	NC
No	18	(100)	74	(100)				11	(100)	45	(100)			
Unknown	0	(0.0)	0	(0.0)				0	(0.0)	0	(0.0)			
Total	18	(100)	74	(100)				11	(100)	45	(100)			
Child had an organ transplant (H8)														
Yes	0	(0.0)	0	(0.0)	NC	NC	NC	0	(0.0)	0	(0.0)	NC	NC	NC
No	17	(94)	72	(97)				11	(100)	45	(100)			
Unknown	1	(5.6)	2	(2.7)				0	(0.0)	0	(0.0)			
Total	18	(100)	74	(100)				11	(100)	45	(100)			
Child had recurrent infections or immunosuppression (H9)														
Yes	7	(39)	19	(26)	1.91	(0.64, 5.7)	0.24	4	(36)	10	(22)	2.1	(0.50, 9.0)	0.31
No	11	(61)	55	(74)	1.00			7	(64)	35	(78)	1.00		
Unknown	0	(0.0)	0	(0.0)				0	(0.0)	0	(0.0)			
Total	18	(100)	74	(100)				11	(100)	45	(100)			

SECTION H: INDEX CHILD'S MEDICAL HISTORY (Continued)

	All Cancers						Leukemia/Lymphoma							
	Cases		Controls		OR ^a	95% CI ^b	P-Value	Cases		Controls		OR ^a	95% CI ^b	P-Value
	n	(%)	n	(%)				n	(%)	n	(%)			
Child had pneumonia (H10)														
Yes	1	(5.6)	6	(8.1)	0.76	(0.09, 6.7)	0.81	1	(9.1)	2	(4.4)	2.2	(0.19, 24)	0.53
No	16	(89)	67	(91)	1.00			9	(82)	42	(93)	1.00		
Unknown	1	(5.6)	1	(1.4)				1	(9.1)	1	(2.2)			
Total	18	(100)	74	(100)				11	(100)	45	(100)			
Child had hypogammaglobulinemia (H11)														
Yes	0	(0.0)	0	(0.0)	NC	NC	NC	0	(0.0)	0	(0.0)	NC	NC	NC
No	18	(100)	72	(97)				11	(100)	44	(98)			
Unknown	0	(0.0)	2	(2.7)				0	(0.0)	1	(2.2)			
Total	18	(100)	74	(100)				11	(100)	45	(100)			
Child received hormones such as insulin, orinase or estrogen (H12)														
Yes	0	(0.0)	1	(1.4)	NC	NC	NC	0	(0.0)	0	(0.0)	NC	NC	NC
No	18	(100)	73	(99)				11	(100)	45	(100)			
Unknown	0	(0.0)	0	(0.0)				0	(0.0)	0	(0.0)			
Total	18	(100)	74	(100)				11	(100)	45	(100)			
Child received immunosuppressants or steroids such as cortisone, prednisone, 6-MP, cytoxan, or imuran (H13)														
Yes	2	(11)	3	(4.1)	5.0	(0.39, 64)	0.22	0	(0.0)	0	(0.0)	NC	NC	NC
No	16	(89)	70	(95)	1.00			11	(100)	45	(100)			
Unknown	0	(0.0)	1	(1.4)				0	(0.0)	0	(0.0)			
Total	18	(100)	74	(100)				11	(100)	45	(100)			
Child received antiepileptic drugs or anti-seizure drugs such as Dilantin, phenytoin, or valproic acid (H14)														
Yes	0	(0.0)	0	(0.0)	NC	NC	NC	0	(0.0)	0	(0.0)	NC	NC	NC
No	18	(100)	74	(100)				11	(100)	45	(100)			
Unknown	0	(0.0)	0	(0.0)				0	(0.0)	0	(0.0)			
Total	18	(100)	74	(100)				11	(100)	45	(100)			

SECTION H: INDEX CHILD'S MEDICAL HISTORY (Continued)

	All Cancers						Leukemia/Lymphoma							
	Cases		Controls		OR ^a	95% CI ^b	P-Value	Cases		Controls		OR ^a	95% CI ^b	P-Value
	n	(%)	n	(%)				n	(%)	n	(%)			
Child received chemotherapy drugs (H15)														
Yes	0	(0.0)	0	(0.0)	NC	NC	NC	0	(0.0)	0	(0.0)	NC	NC	NC
No	18	(100)	74	(100)				11	(100)	45	(100)			
Unknown	0	(0.0)	0	(0.0)				0	(0.0)	0	(0.0)			
Total	18	(100)	74	(100)				11	(100)	45	(100)			

Child received antihistamines (H16)														
Yes	10	(56)	25	(34)	2.70	(0.84, 8.7) [†]	0.095	5	(46)	14	(31)	1.9	(0.47, 7.9)	0.37
No	8	(44)	48	(65)	1.00			6	(55)	30	(67)	1.00		
Unknown	0	(0.0)	1	(1.4)				0	(0.0)	1	(2.2)			
Total	18	(100)	74	(100)				11	(100)	45	(100)			

Child was treated with medication or shampoo for head lice, such as Kwell, Nix or Rid (H17)														
Yes	3	(17)	13	(18)	0.90	(0.21, 3.7)	0.86	2	(18)	6	(13)	1.50	(0.24, 9.5)	0.67
No	15	(83)	61	(82)	1.00			9	(82)	39	(87)	1.00		
Unknown	0	(0.0)	0	(0.0)				0	(0.0)	0	(0.0)			
Total	18	(100)	74	(100)				11	(100)	45	(100)			

^a OR = Matched Odds Ratio

^b 95% CI = 95% Confidence Interval

^c Biological mothers only

[†] Marginally significant association with the odds of childhood cancer ($p \leq 0.10$)

[‡] Statistically significant association with the odds of childhood cancer ($p \leq 0.05$)

NC = Not calculated due to insufficient data (i.e., few discordant pairs)

Percentages may not sum due to rounding

SECTION M: HOUSEHOLD EXPOSURES

All Cancers						Leukemia/Lymphoma							
Cases		Controls		OR ^a	95% CI ^b	P-Value	Cases		Controls		OR ^a	95% CI ^b	P-Value
n	(%)	n	(%)				n	(%)	n	(%)			

Mother used electric blanket while pregnant^c (M1)

Yes	1 (5.6)	5 (6.8)	0.73	(0.08, 6.8)	0.78	0 (0.0)	2 (4.4)	NC	NC	NC
No	15 (83)	65 (88)	1.00			9 (82)	41 (91)			
Unknown	2 (11)	4 (5.4)				2 (18)	2 (4.4)			
Total	18 (100)	74 (100)				11 (100)	45 (100)			

Mother used electric water bed heater while pregnant^c (M2)

Yes	2 (11)	9 (12)	0.91	(0.17, 4.9)	0.91	0 (0.0)	8 (18)	NC	NC	NC
No	14 (78)	61 (82)	1.00			9 (82)	35 (78)			
Unknown	2 (11)	4 (5.4)				2 (18)	2 (4.4)			
Total	18 (100)	74 (100)				11 (100)	45 (100)			

Mother used electric mattress pad while pregnant^c (M3)

Yes	0 (0.0)	1 (1.4)	NC	NC	NC	0 (0.0)	1 (2.2)	NC	NC	NC
No	16 (89)	69 (93)				9 (82)	42 (93)			
Unknown	2 (11)	4 (5.4)				2 (18)	2 (4.4)			
Total	18 (100)	74 (100)				11 (100)	45 (100)			

Questions M4 through M7 refer to the child's use of household appliances prior to the reference date

Child used electric blanket (M4)

Yes	0 (0.0)	6 (8.1)	NC	NC	NC	0 (0.0)	3 (6.7)	NC	NC	NC
No	18 (100)	68 (92)				11 (100)	42 (93)			
Unknown	0 (0.0)	0 (0.0)				0 (0.0)	0 (0.0)			
Total	18 (100)	74 (100)				11 (100)	45 (100)			

SECTION M: HOUSEHOLD EXPOSURES (Continued)

All Cancers						Leukemia/Lymphoma				
	Cases		OR ^a	95% CI ^b	P-Value	Cases		OR ^a	95% CI ^b	P-Value
	n	(%)				n	(%)			

Child used electric water bed heater (M5)

Yes	0 (0.0)	1 (1.4)	NC	NC	NC	0 (0.0)	0 (0.0)	NC	NC	NC
No	18 (100)	73 (99)				11 (100)	45 (100)			
Unknown	0 (0.0)	0 (0.0)				0 (0.0)	0 (0.0)			
Total	18 (100)	74 (100)				11 (100)	45 (100)			

Child used electric mattress pad (M6)

Yes	0 (0.0)	0 (0.0)	NC	NC	NC	0 (0.0)	0 (0.0)	NC	NC	NC
No	18 (100)	74 (100)				11 (100)	45 (100)			
Unknown	0 (0.0)	0 (0.0)				0 (0.0)	0 (0.0)			
Total	18 (100)	74 (100)				11 (100)	45 (100)			

Child used hairdryer (M7)

Yes	8 (44)	26 (35)	1.55	(0.49, 4.9)	0.45	4 (36)	14 (31)	1.4	(0.33, 5.8)	0.66
No	10 (56)	48 (65)	1.00			7 (64)	31 (69)	1.00		
Unknown	0 (0.0)	0 (0.0)				0 (0.0)	0 (0.0)			
Total	18 (100)	74 (100)				11 (100)	45 (100)			

Questions M8 through M20 refer to the child's exposure from one month prior to conception to the reference date

Exposure to solvents, degreasers, paint thinners, dry cleaning agents, or petroleum products (M8)

Yes	11 (61)	56 (76)	0.48	(0.15, 1.5)	0.20	8 (73)	32 (71)	1.1	(0.23, 5.4)	0.89
No	7 (39)	18 (24)	1.00			3 (27)	13 (29)	1.00		
Unknown	0 (0.0)	0 (0.0)				0 (0.0)	0 (0.0)			
Total	18 (100)	74 (100)				11 (100)	45 (100)			

Exposure to paints, inks or pigments (M9)

Yes	13 (72)	59 (80)	0.65	(0.20, 2.2)	0.49	9 (82)	32 (71)	1.9	(0.37, 9.7)	0.45
No	5 (28)	15 (20)	1.00			2 (18)	13 (29)	1.00		
Unknown	0 (0.0)	0 (0.0)				0 (0.0)	0 (0.0)			
Total	18 (100)	74 (100)				11 (100)	45 (100)			

SECTION M: HOUSEHOLD EXPOSURES (Continued)

	All Cancers						Leukemia/Lymphoma							
	Cases		Controls		OR ^a	95% CI ^b	P-Value	Cases		Controls		OR ^a	95% CI ^b	P-Value
	n	(%)	n	(%)				n	(%)	n	(%)			
Exposure to metals, alloys or solders (M10)														
Yes	5	(28)	10	(14)	2.76	(0.73, 10)	0.13	5	(46)	4	(8.9)	NC	NC	NC
No	13	(72)	63	(85)	1.00			6	(55)	40	(89)			
Unknown	0	(0.0)	1	(1.4)				0	(0.0)	1	(2.2)			
Total	18	(100)	74	(100)				11	(100)	45	(100)			
Exposure to plastics, synthetics, or resins (M11)														
Yes	7	(39)	17	(23)	2.3	(0.71, 7.4)	0.16	5	(46)	8	(18)	4.2	(0.96, 18) [†]	0.06
No	11	(61)	55	(74)	1.00			6	(54)	35	(78)	1.00		
Unknown	0	(0.0)	2	(2.7)				0	(0.0)	2	(4.4)			
Total	18	(100)	74	(100)				11	(100)	45	(100)			
Exposure to exhaust fumes (M12)														
Yes	3	(17)	6	(8.1)	2.03	(0.46, 8.9)	0.35	2	(18)	2	(4.4)	3.9	(0.55, 28)	0.17
No	15	(83)	68	(92)	1.00			9	(82)	43	(96)	1.0		
Unknown	0	(0.0)	0	(0.0)				0	(0.0)	0	(0.0)			
Total	18	(100)	74	(100)				11	(100)	45	(100)			
Exposure to insecticides (M13)														
Yes	14	(78)	52	(70)	1.6	(0.5, 5.8)	0.44	9	(82)	30	(67)	2.7	(0.49, 15)	0.25
No	4	(22)	22	(30)	1.0			2	(18)	15	(33)	1.00		
Unknown	0	(0.0)	0	(0.0)				0	(0.0)	0	(0.0)			
Total	18	(100)	74	(100)				11	(100)	45	(100)			
Exposure to herbicides (M14)														
Yes	12	(67)	40	(54)	1.63	(0.52, 5.1)	0.40	8	(73)	21	(47)	3.6	(0.71, 18)	0.12
No	6	(33)	31	(42)	1.00			3	(27)	24	(53)	1.00		
Unknown	0	(0.0)	3	(4.1)				0	(0.0)	0	(0.0)			
Total	18	(100)	74	(100)				11	(100)	45	(100)			

SECTION M: HOUSEHOLD EXPOSURES (Continued)

All Cancers						Leukemia/Lymphoma							
Cases		Controls		OR ^a	95% CI ^b	P-Value	Cases		Controls		OR ^a	95% CI ^b	P-Value
n	(%)	n	(%)				n	(%)	n	(%)			

Exposure to fungicides (M15)

Yes	0 (0)	2 (2.7)	NC	NC	NC	0 (0.0)	1 (2.2)	NC	NC	NC
No	17 (94)	68 (92)				11 (100)	42 (93)			
Unknown	1 (5.6)	4 (5.4)				0 (0.0)	2 (4.4)			
Total	18 (100)	74 (100)				11 (100)	45 (100)			

Questions M16 through M20 refer to childhood exposure from birth to the reference date

Exposure to bug repellants or pesticides (M16)

Yes	13 (72)	58 (78)	0.71	(0.21, 2.4)	0.59	9 (82)	32 (71)	1.9	(0.36, 10)	0.44
No	5 (28)	16 (22)	1.00			2 (18)	13 (29)	1.00		
Unknown	0 (0.0)	0 (0.0)				0 (0.0)	0 (0.0)			
Total	18 (100)	74 (100)				11 (100)	45 (100)			

Exposure to paints, paint thinner, varnishes, wood finishers or wood sealants (M17)

Yes	5 (28)	19 (26)	1.06	(0.32, 3.5)	0.92	3 (27)	9 (20)	1.6	(0.35, 7.1)	0.55
No	13 (72)	55 (74)	1.00			8 (73)	36 (80)	1.00		
Unknown	0 (0.0)	0 (0.0)				0 (0.0)	0 (0.0)			
Total	18 (100)	74 (100)				11 (100)	45 (100)			

Exposure to exhaust fumes (M18)

Yes	4 (22)	8 (11)	2.2	(0.58, 8.5)	0.24	2 (18)	3 (6.7)	2.9	(0.48, 17)	0.24
No	14 (78)	66 (89)	1.00			9 (82)	42 (93)	1.00		
Unknown	0 (0.0)	0 (0.0)				0 (0.0)	0 (0.0)			
Total	18 (100)	74 (100)				11 (100)	45 (100)			

Exposure to glues or rubber cement (M19)

Yes	7 (39)	22 (30)	1.5	(0.51, 4.4)	0.46	4 (36)	16 (36)	1.1	(0.29, 4.3)	0.88
No	11 (61)	51 (69)	1.00			7 (64)	28 (62)	1.00		
Unknown	0 (0.0)	1 (1.4)				0 (0.0)	1 (2.2)			

D20

Total	18 (100)	74 (100)	11 (100)	45 (100)
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SECTION M: HOUSEHOLD EXPOSURES (Continued)

	All Cancers						Leukemia/Lymphoma							
	Cases		Controls		OR ^a	95% CI ^b	P-Value	Cases		Controls		OR ^a	95% CI ^b	P-Value
	n	(%)	n	(%)				n	(%)	n	(%)			
Exposure to photographic solvents (M20)														
Yes	0	(0)	2	(2.7)	NC	NC	NC	0	(0)	0	(0)	NC	NC	NC
No	18	(100)	72	(97)				11	(100)	45	(100)			
Unknown	0	(0.0)	0	(0.0)				0	(0.0)	0	(0.0)			
Total	18	(100)	74	(100)				11	(100)	45	(100)			

^a OR = Matched Odds Ratio

^b 95% CI = 95% Confidence Interval

^c Biological mothers only

†Marginally significant association with the odds of childhood cancer ($p \leq 0.10$)

‡Statistically significant association with the odds of childhood cancer ($p \leq 0.05$)

NC = Not calculated due to insufficient data (i.e., few discordant pairs)

Percentages may not sum due to rounding

MISCELLANEOUS SECTIONS

All Cancers							Leukemia/Lymphoma						
Cases		Controls		OR ^a	95% CI ^b	P-Value	Cases		Controls		OR ^a	95% CI ^b	P-Value
n	(%)	n	(%)				n	(%)	n	(%)			

Maternal smoking in year before birth (C1c-C4c)^c

Yes	1	(5.6)	20	(27)	0.17	(0.02, 1.4)	0.17	1	(9.1)	11	(24)	0.35	(0.04, 3.0)	0.33
No	15	(83)	50	(68)	1.00			8	(73)	32	(71)	1.00		
Unknown	2	(11)	4	(5.4)				2	(18)	2	(4.4)			
Total	18	(100)	74	(100)				11	(100)	45	(100)			

Child was exposed to second-hand smoke prior to the reference date (D1c-D5c, L2e-L5e)

Yes	4	(22)	36	(49)	0.27	(0.07, 1.0) †	0.05	1	(9.1)	21	(47)	NC	NC	NC
No	14	(78)	38	(51)	1.00			10	(91)	24	(53)			
Unknown	0	(0.0)	0	(0.0)				0	(0.0)	0	(0.0)			
Total	18	(100)	74	(100)				11	(100)	45	(100)			

Maternal consumption of alcohol during pregnancy (F23)^c

Yes	4	(22)	27	(37)	0.51	(0.15, 1.7)	0.28	3	(27)	15	(33)	0.89	(0.20, 3.9)	0.87
No	12	(67)	42	(57)	1.00			6	(55)	27	(60)	1.00		
Unknown	2	(11)	5	(6.8)				2	(18)	3	(6.7)			
Total	18	(100)	74	(100)				11	(100)	45	(100)			

Mother had pregnancy prior to the child participating in the study (E1)^c

Yes	10	(56)	48	(65)	0.68	(0.21, 2.1)	0.51	6	(55)	28	(62)	0.95	(0.20, 4.4)	0.95
No	6	(33)	22	(30)	1.00			3	(27)	15	(33)	1.00		
Unknown	2	(11)	4	(5.4)				2	(18)	2	(4.4)			
Total	18	(100)	74	(100)				11	(100)	45	(100)			

MISCELLANEOUS SECTIONS (Continued)

	All Cancers						Leukemia/Lymphoma							
	Cases		Controls		OR ^a	95% CI ^b	P-Value	Cases		Controls		OR ^a	95% CI ^b	P-Value
	n	(%)	n	(%)				n	(%)	n	(%)			
Mother had previous miscarriage or spontaneous abortion (E2)^c														
Yes	2	(11)	13	(18)	0.64	(0.14, 2.9)	0.57	1	(9.1)	7	(16)	0.63	(0.08, 5.2)	0.67
No	14	(78)	57	(77)	1.00			8	(73)	36	(80)	1.00		
Unknown	2	(11)	4	(5.4)				2	(18)	2	(4.4)			
Total	18	(100)	74	(100)				11	(100)	45	(100)			
Mother had previous live birth (E3)^c														
Yes	9	(50)	43	(58)	0.66	(0.20, 2.2)	0.50	5	(46)	23	(51)	0.93	(0.20, 4.4)	0.93
No	7	(39)	27	(37)	1.00			4	(36)	20	(44)	1.00		
Unknown	2	(11)	4	(5.4)				2	(18)	2	(4.4)			
Total	18	(100)	74	(100)				11	(100)	45	(100)			
Mother had previous still birth (E4)^c														
Yes	0	(0)	0	(0.0)	NC	NC	NC	0	(0.0)	0	(0.0)	NC	NC	NC
No	16	(89)	70	(95)				9	(82)	43	(96)			
Unknown	2	(11)	4	(5.4)				2	(18)	2	(4.4)			
Total	18	(100)	74	(100)				11	(100)	45	(100)			
High schools is mother's highest level of education (N2)														
Yes	6	(33)	17	(23)	1.7	(0.50, 5.6)	0.41	4	(36)	13	(29)	1.43	(0.32, 6.3)	0.64
No	12	(67)	57	(77)	1.00			7	(64)	32	(71)	1.0		
Unknown	0	(0.0)	0	(0.0)				0	(0)	0	(0.0)			
Total	18	(100)	74	(100)				11	(100)	45	(100)			
Maternal age at birth greater than 35 (N1)														
Yes	1	(5.6)	8	(11)	0.50	(0.06, 4.0)	0.52	1	(9.1)	6	(13)	0.64	(0.08, 5.3)	0.68
No	17	(94)	65	(88)	1.00			10	(91)	38	(84)	1.0		
Unknown	0	(0.0)	1	(1.4)				0	(0.0)	1	(2.2)			
Total	18	(100)	74	(100)				11	(100)	45	(100)			

MISCELLANEOUS SECTIONS (Continued)

	All Cancers					Leukemia/Lymphoma								
	Cases		Controls		OR ^a	95% CI ^b	P-Value	Cases		Controls		OR ^a	95% CI ^b	P-Value
	n	(%)	n	(%)				n	(%)	n	(%)			
Mother exposed to radiation at work (O9)														
Yes	4	(22)	6	(8.1)	2.6	(0.7, 19)	0.14	3	(27)	3	(6.7)	3.8	(0.8, 19)	0.10
No	14	(78)	67	(91)	1.0			8	(73)	41	(91)	1.0		
Unknown	0	(0.0)	1	(1.4)				0	(0)	1	(2.2)			
Total	18	(100)	74	(100)				11	(100)	45	(100)			

a OR = Matched Odds Ratio

b 95% CI = 95% Confidence Interval

c Biological mothers only

†Marginally significant association with the odds of childhood cancer ($p \leq 0.10$)

‡Statistically significant association with the odds of childhood cancer ($p \leq 0.05$)

NC = Not calculated due to insufficient data (i.e., few discordant pairs)

Percentages may not sum due to rounding