

Web Table 1. Parental Age and Risk of Hematological Malignancy Subtypes in the Cancer Prevention Study-II, 1992-2009^a

Women																					
Variable	All Lymphoid			DLBCL			FL			CLL/SLL			MM			All Myeloid			AML		
	Cases (n=931)	HR	95% CI	Cases (n=190)	HR	95% CI	Cases (n=142)	HR	95% CI	Cases (n=214)	HR	95% CI	Cases (n=158)	HR	95% CI	Cases (n=128)	HR	95% CI	Cases (n=85)	HR	95% CI
Paternal age at birth, years																					
<25 ^c	151	1.00		29	1.00		30	1.00		42	1.00		20	1.00		19	1.00		12	1.00	
25-29	241	0.88	0.71, 1.10	48	0.98	0.60, 1.60	41	0.66	0.39, 1.12	51	0.65	0.42, 1.01	42	1.20	0.68, 2.12	38	1.17	0.65, 2.10	26	1.29	0.63, 2.67
30-34	258	1.04	0.82, 1.33	56	1.44	0.85, 2.43	40	0.57	0.31, 1.05	57	0.80	0.49, 1.31	41	1.33	0.71, 2.49	27	0.95	0.48, 1.88	17	0.99	0.42, 2.33
35+	281	0.99	0.75, 1.30	57	1.51	0.83, 2.73	31	0.37	0.18, 0.76	64	0.77	0.44, 1.36	55	1.47	0.74, 2.94	44	1.48	0.71, 3.07	30	1.54	0.62, 3.84
Continuous, per 5 years		1.01	0.94, 1.08		1.11	0.96, 1.29		0.88	0.72, 1.07		0.97	0.83, 1.13		1.06	0.90, 1.25		1.07	0.89, 1.28		1.01	0.80, 1.28
Maternal age at birth, years																					
<25 ^c	313	1.00		67	1.00		50	1.00		74	1.00		50	1.00		45	1.00		30	1.00	
25-29	267	0.93	0.77, 1.12	60	0.88	0.59, 1.30	39	1.11	0.68, 1.81	63	1.04	0.70, 1.54	44	0.87	0.55, 1.37	35	0.81	0.50, 1.34	23	0.79	0.43, 1.45
30-34	207	0.93	0.74, 1.17	37	0.62	0.38, 1.03	37	1.71	0.96, 3.05	43	0.90	0.55, 1.47	35	0.86	0.50, 1.49	29	0.85	0.46, 1.56	17	0.76	0.36, 1.63
35+	144	0.83	0.63, 1.09	26	0.54	0.29, 0.98	16	1.21	0.55, 2.66	34	0.91	0.51, 1.63	29	0.84	0.44, 1.60	19	0.59	0.28, 1.22	15	0.71	0.29, 1.70
Continuous, per 5 years		0.96	0.89, 1.05		0.87	0.73, 1.04		1.02	0.82, 1.28		0.98	0.82, 1.17		0.96	0.79, 1.16		0.89	0.71, 1.10		0.95	0.72, 1.25
Men																					
Variable	All Lymphoid			DLBCL			FL			CLL/SLL			MM			All Myeloid			AML		
	Cases (n=1,140)	HR	95% CI	Cases (n=220)	HR	95% CI	Cases (n=129)	HR	95% CI	Cases (n=270)	HR	95% CI	Cases (n=218)	HR	95% CI	Cases (n=194)	HR	95% CI	Cases (n=137)	HR	95% CI
Paternal age at birth, years																					
<25 ^c	144	1.00		33	1.00		18	1.00		30	1.00		28	1.00		27	1.00		16	1.00	
25-29	359	1.41	1.15, 1.74	59	0.93	0.59, 1.48	45	1.47	0.82, 2.63	85	1.57	1.01, 2.44	70	1.39	0.87, 2.22	39	0.74	0.43, 1.25	28	0.92	0.48, 1.79
30-34	281	1.23	0.97, 1.55	56	0.93	0.55, 1.56	29	1.06	0.54, 2.11	66	1.31	0.80, 2.17	57	1.13	0.66, 1.94	50	1.01	0.57, 1.78	36	1.22	0.60, 2.47
35+	356	1.40	1.08, 1.81	72	1.12	0.64, 1.97	37	1.30	0.62, 2.75	89	1.54	0.90, 2.65	63	1.04	0.57, 1.90	78	1.37	0.75, 2.52	57	1.69	0.80, 3.58
Continuous, per 5 years		1.05	0.98, 1.11		1.03	0.90, 1.19		1.03	0.85, 1.24		1.00	0.87, 1.14		0.97	0.83, 1.12		1.07	0.92, 1.24		1.08	0.91, 1.29
Maternal age at birth, years																					
<25 ^c	304	1.00		68	1.00		47	1.00		83	1.00		70	1.00		52	1.00		35	1.00	
25-29	255	0.88	0.74, 1.03	68	1.09	0.74, 1.61	38	0.82	0.51, 1.31	81	0.93	0.66, 1.30	62	0.90	0.61, 1.32	56	1.10	0.71, 1.72	37	1.00	0.59, 1.70
30-34	201	0.90	0.73, 1.10	52	1.08	0.68, 1.73	28	0.89	0.49, 1.62	61	0.98	0.65, 1.49	53	1.19	0.75, 1.89	48	1.10	0.66, 1.84	38	1.19	0.65, 2.16
35+	175	0.79	0.62, 1.01	32	0.80	0.45, 1.41	16	0.63	0.29, 1.34	45	0.90	0.55, 1.48	33	1.01	0.57, 1.81	38	0.95	0.53, 1.71	27	0.92	0.46, 1.84
Continuous, per 5 years		0.95	0.89, 1.03		0.97	0.82, 1.14		0.89	0.71, 1.11		1.08	0.93, 1.26		1.04	0.87, 1.23		1.06	0.89, 1.26		1.07	0.87, 1.31
All Participants																					
Variable	All Lymphoid			DLBCL			FL			CLL/SLL			MM			All Myeloid			AML		
	Cases (n=2,071)	HR ^b	95% CI	Cases (n=410)	HR ^b	95% CI	Cases (n=271)	HR ^b	95% CI	Cases (n=484)	HR ^b	95% CI	Cases (n=376)	HR ^b	95% CI	Cases (n=322)	HR ^b	95% CI	Cases (n=222)	HR ^b	95% CI
Paternal age at birth, years																					
<25 ^c	295	1.00		62	1.00		48	1.00		72	1.00		48	1.00		46	1.00		28	1.00	
25-29	600	1.14	0.98, 1.33	107	0.95	0.68, 1.34	86	0.96	0.66, 1.41	136	1.03	0.76, 1.40	112	1.31	0.92, 1.88	77	0.91	0.61, 1.35	54	1.08	0.66, 1.75
30-34	539	1.13	0.96, 1.34	112	1.15	0.79, 1.66	69	0.77	0.49, 1.21	123	1.02	0.72, 1.44	98	1.21	0.81, 1.82	77	0.99	0.64, 1.54	53	1.14	0.66, 1.96
35+	637	1.19	0.98, 1.43	129	1.29	0.86, 1.94	68	0.68	0.40, 1.13	153	1.10	0.75, 1.61	118	1.20	0.77, 1.89	122	1.42	0.89, 2.26	87	1.64	0.93, 2.92
Continuous, per 5 years		1.03	0.98, 1.08		1.07	0.96, 1.18		0.95	0.83, 1.09		0.99	0.89, 1.09		1.00	0.90, 1.12		1.07	0.95, 1.20		1.06	0.92, 1.21
Maternal age at birth, years																					
<25	689	1.00		135	1.00		97	1.00		157	1.00		120	1.00		97	1.00		65	1.00	
25-29	607	0.90	0.80, 1.02	128	0.98	0.74, 1.29	77	0.95	0.67, 1.33	144	0.97	0.75, 1.26	106	0.89	0.66, 1.19	91	0.97	0.70, 1.35	60	0.91	0.61, 1.35
30-34	456	0.91	0.79, 1.06	89	0.84	0.60, 1.18	65	1.25	0.82, 1.89	104	0.95	0.69, 1.30	88	1.04	0.73, 1.49	77	0.98	0.66, 1.45	55	1.00	0.63, 1.59
35+	319	0.81	0.67, 0.97	58	0.66	0.44, 1.00	32	0.87	0.50, 1.50	79	0.90	0.62, 1.32	62	0.95	0.62, 1.46	57	0.79	0.50, 1.24	42	0.83	0.48, 1.42
Continuous, per 5 years		0.96	0.91, 1.01		0.92	0.82, 1.04		0.95	0.81, 1.12		1.03	0.92, 1.16		1.00	0.88, 1.14		0.99	0.86, 1.13		1.02	0.86, 1.20

Abbreviations: AML, acute myeloid leukemia; CI, confidence interval; CLL/SLL, chronic lymphocytic leukemia/small lymphocytic lymphoma; DLBCL, diffuse large B-cell lymphoma; FL, follicular lymphoma; HR, hazard ratio; MM, multiple myeloma.

^a All models were adjusted for race, sibling status, education, age of the other parent at the time of participant's birth and stratified by age in years at cohort entry.

^b The model was further adjusted for sex.

^c Referent category.