**Figure S1** Pooled analysis of space-time clustering studies of childhood **leukaemia** for place and time of **diagnosis** for children aged **0-15 years** (top), **0-5 years** (middle) and **5-15 years** (bottom): Forrest plot of ratio of observed over expected number of close pairs of cases (O/E) and acceptance region for one-sided Knox test assuming Poisson distribution at 5% alpha-level

Author, Year	Country	Period	Diagnosis	Age	km	mths		O/E	P-value	Weight
Meighan et al., 1965	USA	1950-61	Leuk	0-14	8	8		1.14	0.05	0.7%
Mainwaring, 1966	UK	1955-64	AL	0-14	8	8		1.04	0.22	1.3%
Till et al., 1967	UK	1952-60	LL	0-14	1	2		1.96	0.02	0%
Gunz et al., 1968	NZ	1953-64	Leuk	0-14	8	3		1.17	0.18	0.1%
Glass et al., 1969	USA	1960-64	Leuk	0-14	7	6		0.98	0.58	0.9%
Zahálková et al., 1970	CZ	1965-68	Leuk	0-15	12	12		1.88	0.04	0%
Klauber et al., 1970	USA	1946-66	Leuk	0-14	3	12		1.04	0.23	1.3%
Van Steensel-Moll et al.,	1983 NL	1973-79	Leuk	0-14	2	6	I	1.02	0.41	0.2%
Morris, 1990	UK	1953-60	Leuk	0-9	0	15		1.92	0.02	0%
Gilman et al., 1991	UK	1966-83	Leuk	0-14	5	9		1.01	0.21	31.8%
Petridou et al., 1996	GR	1980-89	Leuk	0-14	5	12	1	1.05	<0.01	14.1%
Gustafsson et al., 1999	SWE	1973-89	ALL	0-15	25	6		0.99	0.51	0.9%
Gilman et al., 1999	UK	1984-88	ALL	0-14	5	9		0.99	0.5	0.4%
Gilman et al., 1999	UK	1989-93	ALL	0-14	5	9		0.98	0.56	0.5%
Bellec et al., 2006	F	1990-00	AL	0-14	5	9		1	0.5	45.9%
Kreis et al., 2016	CH	1985-10	Leuk	0-15	5	6		0.91	0.96	1.9%
					6.5	8.3		1.01	0.05	100%
						I				
						0.9	90 1.05 1.20	)		
						O/E a	nd acceptance re	gion		
Knox, 1964	UK	1951-60	Leuk	0-5	1	2		6.25	<0.01	0%
Till et al., 1967	UK	1952-60	LL	0-5	1	2		2.22	0.02	0.1%
Gunz et al., 1968	NZ	1953-64	Leuk	0-5	8	3		1.14	0.27	0.2%
Browning et al., 1968	USA	1952-60	AL	0-5	4	3		1.05	0.33	0.1%
Van Steensel-Moll et al.,	1983 NL	1973-79	ALL	0-5	2	6		0.61	0.86	0.2%
Gilman et al., 1991	UK	1966-83	Leuk	0-4	5	6	1	1.03	0.16	25.5%
Petridou et al., 1996	GR	1980-89	Leuk	0-4	5	12		1.09	<0.01	18.4%
Gustafsson et al., 1999	SWE	1973-89	ALL	0-4	25	6	1	1.03	0.36	1.8%
Birch et al., 2000	UK	1954-85	Leuk	0-4	5	12		1.11	0.03	7.2%
Bellec et al., 2006	F	1990-00	AL	0-4	5	6		1.04	0.04	44.2%
Kreis et al., 2016	CH	1985-10	Leuk	0-4	5	6		1.01	0.43	2.3%
					6	5.9	1	1.05	<0.01	100%
						1				
						0.0	od accontanco ro	, aion		
							nu acceptance re	gion		
Gilman et al., 1991	UK	1966-83	Leuk	5-14	10	12	I.	0.99	0.78	93.1%
Gustafsson et al., 1999	SWE	1973-89	ALL	5-15	25	12		0.98	0.5	0.6%
Kreis et al., 2016	CH	1985-10	Leuk	5-15	10	12		0.85	1	6.4%
					15	12		0.98	0.94	100%
						0	90 1.05 1.20	)		
						0/E a	nd acceptance re	aion		
Birch et al., 2000 Bellec et al., 2006 Kreis et al., 2016 Gilman et al., 1991 Gustafsson et al., 1999 Kreis et al., 2016	UK F CH UK SWE CH	1954-85 1990-00 1985-10 1966-83 1973-89 1985-10	Leuk AL Leuk Leuk ALL Leuk	0-4 0-4 5-14 5-15 5-15	5 5 6 10 25 10 <b>15</b>	12 6 5.9 0/E au 12 12 12 12 12 0.9 0/E au	1 90 1.05 1.20 nd acceptance re 90 1.05 1.20 nd acceptance re	1.11 1.04 1.01 <b>1.05</b> 0 gion 0.99 0.98 0.85 <b>0.98</b> 0.85	0.03 0.04 0.43 <0.01 0.78 0.5 1 0.94	7.2% 44.2% 2.3% 100% 93.1% 0.6% 6.4% 100%

**Figure S2** Pooled analysis of space-time clustering studies of childhood **leukaemia** for place and time of **birth** for children aged **0-15 years** (top), **0-5 years** (middle) and **5-15 years** (bottom): Forrest plot of ratio of observed over expected number of close pairs of cases (O/E) and acceptance region for one-sided Knox test assuming Poisson distribution at 5% alpha-level

Author, Year	Country	Period	Diagnosis	Age	km 5	mths			0/E	P-value	Weight
Gilman et al., 1995		1953-64	Leuk and Lymp	h0-15	5	12			0.08	0.12	39.5%
Gustafasan at al. 2000	SWE	1072.06		0 14	25	12			1.05	0.00	0 20/
Gustaisson et al., 2000	SVVE	1973-90	ALL	0-14	25	12			1.05	0.1	0.3%
Birch et al., 2000	UK	1954-85	Leuk	0-14	5	12			0.99	0.58	13.5%
McNally et al., 2002	UK	1980-01	ALL	0-14	5	12			0.98	0.65	4.2%
Kreis et al., 2016	CH	1985-10	Leuk	0-15	10	12			1.02	0.26	14.5%
					10	12			1	0.4	100%
						0.90	) 1.05	1.20			
						O/E and	d acceptar	nce reg	jion		
Till et al., 1967	UK	1952-60	LL	0-5	4	6			1.2	0.02	10.4%
Smith et al., 1976	UK	1961-64	ALL	0-5	4	6			1.01	0.43	2.1%
Gustafsson et al., 2000	SWE	1973-96	ALL	0-4	25	12			1.05	0.18	25.9%
Birch et al., 2000	UK	1954-85	Leuk	0-4	5	12			1.04	0.26	26.5%
Kreis et al., 2016	CH	1985-10	Leuk	0-4	10	12	1		1.01	0.44	35.1%
					9.6	9.6	) 1.05	1.20	1.05	0.06	100%
						O/E and	d acceptar	nce reg	jion		
Gustafsson et al., 2000	SWE	1973-96	ALL	5-14	25	12			1.09	0.17	29.2%
Kreis et al., 2016	СН	1985-10	Leuk	5-15	10	12	1		1.01	0.45	70.8%
					17.5	<b>12</b> 0.90	1.05	 1.20	1.03	0.28	100%
						O/E and	d acceptar	nce reg	jion		

Morris, 1990 was excluded from the analysis of children aged 0-15 years because of overlapping study samples. Smith et al, 1976 (sub-period 1952-59) was excluded from the analysis of children aged 0-5 years because of overlapping study samples.

**Figure S3** Pooled analysis of space-time clustering studies of childhood **leukaemia** for place and time of **diagnosis** for children aged **0-15 years** (top) and **0-5 years** (bottom) for spatial lags of **3-7 km** and temporal lags of **6-18 months**: Forrest plot of ratio of observed over expected number of close pairs of cases (O/E) and acceptance region for one-sided Knox test assuming Poisson distribution at 5% alpha-level

Author, Year	Country	Period	Diagnosis	Age	km	mths	0	/E P-value	Weight
Meighan et al., 1965	USĂ	1950-61	Leuk	0-14	4	12	1.	18 0.06	0.5%
Mainwaring, 1966	UK	1955-64	AL	0-14	5	12	1.1.1	15 0.02	1.5%
Glass et al., 1969	USA	1960-64	Leuk	0-14	4	12	0.	95 0.66	0.6%
Klauber et al., 1970	USA	1946-66	Leuk	0-14	3	12	1.0	0.23	1.8%
Gilman et al., 1991	UK	1966-83	Leuk	0-14	5	12	1.0	0.18	59.6%
Petridou et al., 1996	GR	1980-89	Leuk	0-14	5	12	1.0	05 <0.01	20.3%
Gilman et al., 1999	UK	1984-88	ALL	0-14	5	12	0.	98 0.55	0.7%
Gilman et al., 1999	UK	1989-93	ALL	0-14	5	12	1.0	0.43	1%
Bellec et al., 2006	F	1990-00	AL	0-14	5	12		1 0.49	8.6%
Kreis et al., 2016	CH	1985-10	Leuk	0-15	5	12	0.9	94 0.96	5.3%
					4.6	12	1.0	0.02	100%
						0.90 1.05	1.20		
						O/E and accepta	nce regio	n	
Gilmon et al 1001	IJК	1066-83	Louk	0_4	5	12	1	12 0.18	20.8%
Botridou et al., 1991	CP	1000-00	Leuk	0.4	5	12	1.	32 0.10	11 /0/
Petrobotical, 1990		1900-09	Leuk	0-4	5	12	1.	11 0.02	11.470
Birch et al., 2000		1954-65	Leuk	0-4	5	12	1.	0.03	4.4%
Bellec et al., 2006	F	1990-00	AL	0-4	5	12 1	1.0	J1 0.27	51.5%
Kreis et al., 2016	CH	1985-10	Leuk	0-4	5	12	1.	0.38	2.9%
					5	12	1.	03 0.01	100%
						0.90 1.05	1.20		
						O/E and accepta	nce regio	n	

**Figure S4** Pooled analysis of space-time clustering studies of childhood **leukaemia** for place and time of **diagnosis** for children aged **0-15 years** (top) and **0-5 years** (bottom) for spatial lags of **3-7 km** and temporal lags of **12-36 months**: Forrest plot of ratio of observed over expected number of close pairs of cases (O/E) and acceptance region for one-sided Knox test assuming Poisson distribution at 5% alpha-level

Author, Year	Country	Period	Diagnosis	Age	km	mths	O/E	P-value	Weight
Meighan et al., 1965	USA	1950-61	Leuk	0-14	4	12	1.18	0.06	0.3%
Mainwaring, 1966	UK	1955-64	AL	0-14	5	33	1.09	0.02	2.4%
Glass et al., 1969	USA	1960-64	Leuk	0-14	4	12	0.95	0.66	0.4%
Klauber et al., 1970	USA	1946-66	Leuk	0-14	3	12	1.04	0.23	1.1%
Gilman et al., 1991	UK	1966-83	Leuk	0-14	5	24	1.01	0.1	70.3%
Petridou et al., 1996	GR	1980-89	Leuk	0-14	5	12	1.05	<0.01	12.4%
Gilman et al., 1999	UK	1984-88	ALL	0-14	5	18	0.97	0.61	0.6%
Gilman et al., 1999	UK	1989-93	ALL	0-14	5	18	1.05	0.23	0.8%
Bellec et al., 2006	F	1990-00	AL	0-14	5	12	1	0.49	5.2%
Kreis et al., 2016	CH	1985-10	Leuk	0-15	5	24	0.97	0.9	6.4%
					4.6	17.8	1.01	0.02	100%
						0.90 1.05	1.20		
						O/E and acceptar	ice region		
Cilmon et al. 1001		1000 00	المناد	0.4	-	24	1.01	0.00	40 70/
Gliman et al., 1991	UK	1966-83	Leuk	0-4	5	24	1.01	0.26	43.7%
Petridou et al., 1996	GR	1980-89	Leuk	0-4	5	12	1.09	< 0.01	8.8%
Birch et al., 2000	UK	1954-85	Leuk	0-4	5	12	1.11	0.03	3.4%
Bellec et al., 2006	F	1990-00	AL	0-4	5	12	1.01	0.27	39.7%
Kreis et al., 2016	CH	1985-10	Leuk	0-4	5	24	0.97	0.72	4.4%
					5	16.8	1.02	0.04	100%
						0.90 1.05	1.20		
						O/E and acceptar	nce region		

**Figure S5** Pooled analysis of space-time clustering studies of childhood **leukaemia** for place and time of **diagnosis** for children aged **0-15 years** (top) and **0-5 years** (bottom) for spatial lags of **7-15 km** and temporal lags of **0-12 months**: Forrest plot of ratio of observed over expected number of close pairs of cases (O/E) and acceptance region for one-sided Knox test assuming Poisson distribution at 5% alpha-level

Author, Year	Country	Period	Diagnosis	Age	km	mths	:		O/E	P-value	Weight
Meighan et al., 1965	USA	1950-61	Leuk	0-14	8	7			1.12	0.09	0.3%
Mainwaring, 1966	UK	1955-64	AL	0-14	8	7			1.01	0.43	0.6%
Gunz et al., 1968	NZ	1953-64	Leuk	0-14	8	3			1.17	0.18	0.1%
Glass et al., 1969	USA	1960-64	Leuk	0-14	11	6			1	0.46	1.2%
Zahálková et al., 1970	CZ	1965-68	Leuk	0-15	12	12			1.88	0.04	0%
Gilman et al., 1991	UK	1966-83	Leuk	0-14	10	6	1		1.01	0.12	41.5%
Bellec et al., 2006	F	1990-00	AL	0-14	10	6			1	0.5	53.3%
Kreis et al., 2016	CH	1985-10	Leuk	0-15	10	6			0.95	0.92	2.9%
					9.6	6.5			1	0.26	100%
						ا 9.0	90 1.05	1.20	)		
						O/E ar	nd accepta	nce reg	gion		
Gunz et al., 1968	NZ	1953-64	Leuk	0-5	8	3			1.14	0.27	0.1%
Gilman et al., 1991	UK	1966-83	Leuk	0-4	10	6	1		1.02	0.12	39.7%
Bellec et al., 2006	F	1990-00	AL	0-4	10	6	1		1.02	0.08	57.4%
Kreis et al., 2016	CH	1985-10	Leuk	0-4	10	6			1.03	0.29	2.8%
					9.5	5.2			1.02	0.03	100%
						ا 2.0	$\frac{1}{1.05}$	1.20	)		
						0/F 21	nd accenta		aion		
							iu accepta	ICE IE	gion		

**Figure S6** Pooled analysis of space-time clustering studies of childhood **ALL** for place and time of **diagnosis** for children aged **0-15 years** (top), **0-5 years** (middle) and **5-15 years** (bottom): Forrest plot of ratio of observed over expected number of close pairs of cases (O/E) and acceptance region for one-sided Knox test assuming Poisson distribution at 5% alpha-level

Author, Year	Country	Period	Diagnosis	Age	km 1	mths		0/E	P-value	Weight
Van Steensel Moll et al	1083 NI	1952-00		0-14	2	2		1.90	0.02	0.1%
Cilmon et al. 1001		1066 92		0-14	2	0		0.00	0.43	0.4 /0
Detrideu et el 1006		1900-03		0-14	5	10		1.04	0.73	24 70/
Petridou et al., 1996	GR	1960-69	ALL	0-14	5	12		1.04	0.04	31.7%
Gustatsson et al., 1999	SWE	1973-89	ALL	0-15	25	6		0.99	0.51	2.7%
Gilman et al., 1999	UK	1984-88	ALL	0-14	5	9		0.99	0.5	1.1%
Gilman et al., 1999	UK	1989-93	ALL	0-14	5	9		0.98	0.56	1.6%
Kreis et al., 2016	CH	1985-10	ALL	0-15	5	6		0.94	0.81	3.7%
					6.6	7.4		1	0.36	100%
						0.	90 1.05 1.2	20		
						O/E a	nd acceptance r	egion		
Till et al. 1967	LIK	1052-60		0-5	1	2		2 22	0.02	0.2%
Ven Steeneel Mell et el	1002 MI	1072 70		0-5	2	2		2.22	0.02	0.2 /0
Van Steensel-Woll et al.,	1963 NL	1973-79	ALL	0-5	2	0		0.01	0.00	0.8%
Petridou et al., 1996	GR	1980-89	ALL	0-4	5	12		1.05	0.1	52.8%
Gustafsson et al., 1999	SWE	1973-89	ALL	0-4	25	12		1.07	0.17	13.3%
Birch et al., 2000	UK	1954-85	ALL	0-4	5	12		1.1	0.05	20.5%
Kreis et al., 2016	CH	1985-10	ALL	0-4	5	12		0.97	0.64	12.3%
					7.1	9.4		1.05	0.04	100%
						0.	90 1.05 1.2	20		
						O/E a	nd acceptance r	egion		
Gustafsson et al., 1999	SWE	1973-89	ALL	5-15	25	12		0.98	0.5	13.5%
Kreis et al., 2016	СН	1985-10	ALL	5-15	10	12		0.85	0.99	86.5%
					17.5	<b>12</b> 0.	90 1.05 1.2	<b>0.87</b>	0.99	100%
						O/E a	nd acceptance r	egion		

**Figure S7** Pooled analysis of space-time clustering studies of childhood **ALL** for place and time of **birth** for children aged **0-15 years** (top), **0-5 years** (middle) and **5-15 years** (bottom): Forrest plot of ratio of observed over expected number of close pairs of cases (O/E) and acceptance region for one-sided Knox test assuming Poisson distribution at 5% alpha-level

Author, Year Gustafsson et al., 2000	Country SWE	<b>Period</b> 1973-96	<b>Diagnosis</b> ALL	<b>Age</b> 0-14	<b>km</b> 25	mths 12		<b>O/E</b> 1.05	<b>P-value</b> 0.1	Weight 27%
Birch et al., 2000	UK	1954-85	ALL	0-14	5	12		0.99	0.6	28.7%
McNally et al., 2002	UK	1980-01	ALL	0-14	5	12		0.98	0.65	13.9%
Kreis et al., 2016	CH	1985-10	ALL	0-15	10	12		1	0.53	30.5%
					11.2	<b>12</b> 0.90	1.05 1.2	<b>1.01</b> 0	0.38	100%
						O/E and ad	cceptance re	gion		
Till et al., 1967	UK	1952-60	LL	0-5	4	6		1.2	0.02	12.6%
Smith et al., 1976	UK	1961-64	ALL	0-5	4	6	1	1.01	0.43	2.6%
Gustafsson et al., 2000	SWE	1973-96	ALL	0-4	25	12		1.05	0.18	31.5%
Birch et al., 2000	UK	1954-85	ALL	0-4	5	12		1.04	0.28	24.3%
Kreis et al., 2016	CH	1985-10	ALL	0-4	10	12		0.96	0.74	29%
					9.6	<b>9.6</b> 0.90	1.05 1.2	<b>1.04</b> 0	0.12	100%
						O/E and ad	cceptance re	gion		
Gustafsson et al., 2000	SWE	1973-96	ALL	5-14	25	12	1	1.09	0.17	41.2%
Kreis et al., 2016	CH	1985-10	ALL	5-15	10	12		0.99	0.51	58.8%
					17.5	<b>12</b> 0.90	1.05 1.2	<b>1.03</b> 0	0.29	100%

O/E and acceptance region

**Figure S8** Pooled analysis of space-time clustering studies of childhood **lymphoma** for place and time of **diagnosis** (top) and **birth** (upper middle), **CNS tumours** for place and time of **diagnosis** (lower middle) and for **neuroblastomas** for place and time of **birth** (bottom): Forrest plot of ratio of observed over expected number of close pairs of cases (O/E) and acceptance region for one-sided Knox test assuming Poisson distribution at 5% alpha-level

Author, Year Gilman et al., 1991	Country UK	<b>Period</b> 1966-83	<b>Diagnosis</b> NHL	<b>Age</b> 0-14	<b>km</b> 5	mths 12	<b>O/E</b> 1.1	<b>P-value</b> 0.05	Weight 45.6%
Gilman et al., 1999	UK	1984-88	HL	0-14	5	12	0.45	0.82	0.8%
McNally et al., 2004	UK	1954-01	Lymph	0-14	5	12	0.98	0.56	26.7%
Kreis et al., 2016	CH	1985-10	Lymph	0-15	5	12	0.97	0.64	26.9%
					5	<b>12</b>   0.90 1.05	<b>1.03</b>	0.24	100%
						O/E and acceptar	nce region		
McNally et al., 2004	UK	1954-01	Lymph	0-14	5	12	0.99	0.5	58.7%
Kreis et al., 2016	CH	1985-10	Lymph	0-15	5	12	0.97	0.57	41.3%
					5	<b>12</b> 0.90 1.05	<b>0.98</b>	0.57	100%
						O/E and acceptar	nce region		
McNally et al., 2002	UK	1954-98	CNS	0-14	5	12	1.04	0.13	70.4%
Houben et al., 2005	NL	1983-01	Glioma	0-14	5	12	0.76	0.72	0.8%
Houben et al., 2005	NL	1989-01	Glioma	0-14	5	12	0.9	0.54	0.7%
Kreis et al., 2016	CH	1985-10	CNS	0-15	5	12	1.03	0.25	28.1%
					5	<b>12</b> 0.90 1.05	<b>1.03</b>	0.11	100%
						O/E and acceptar	nce region		
McNally et al., 2003	UK	1954-98	Neuroblastomas	0-14	5	12	1.02	0.4	61.3%
Kreis et al., 2016	СН	1985-10	Neuroblastomas	0-15	5	12	1.03	0.38	38.7%
					5	<b>12</b>   0.90 1.05	<b>1.03</b>	0.38	100%
						O/E and acceptar	nce region		

Mangoud et al, 1985 was excluded from the analysis of childhood lymphoma at time of diagnosis because of overlapping study samples.