

Table S2: Childhood cancers whose risk associates with birthweight in only one of the USA or UK datasets: analysis by birthweight category

Cancer	Dataset ^a	Cases	Controls	Birthweight category (kg) ^b					
				0.50-1.99	2.00-2.49	2.50-2.99	3.00-3.49	3.50-3.99	≥4.00
Lymphomas and reticuloendothelial neoplasms									
Total	USA	1396	53716	0.90 (0.54-1.50)	1.04 (0.76-1.41)	1.06 (0.89-1.25)	1	1.04 (0.91-1.19)	1.11 (0.93-1.32)
	UK	2020	2957	0.66 (0.35-1.24)	0.64 (0.40-1.03)	0.97 (0.77-1.21)	1	1.07 (0.91-1.26)	1.36 (1.05-1.76)
Hodgkin lymphomas	USA	431	53716	1.25 (0.53-2.93)	0.83 (0.45-1.52)	1.16 (0.86-1.55)	1	1.14 (0.90-1.44)	1.20 (0.88-1.63)
	UK	823	1255	0.44 (0.16-1.22)	0.64 (0.32-1.26)	0.90 (0.63-1.28)	1	0.94 (0.74-1.20)	1.21 (0.83-1.76)
Non-Hodgkin lymphomas (except Burkitt lymphoma)	USA	549	53716	1.03 (0.47-2.28)	1.48 (0.95-2.32)	1.16 (0.89-1.51)	1	1.08 (0.87-1.33)	1.14 (0.86-1.50)
	UK	847	1172	0.86 (0.35-2.15)	0.72 (0.33-1.56)	0.96 (0.68-1.35)	1	1.00 (0.78-1.29)	1.11 (0.72-1.70)
Burkitt lymphoma	USA	220	53716	0.43 (0.09-1.98)	0.47 (0.18-1.21)	0.80 (0.52-1.24)	1	0.86 (0.62-1.19)	1.05 (0.70-1.57)
	USA ^c	232	57569	0.65 (0.21-2.06)	0.55 (0.22-1.35)	0.80 (0.53-1.23)	1	0.86 (0.63-1.18)	1.01 (0.68-1.49)
	USA ^d	193	48844	0.26 (0.04-1.87)	0.27 (0.07-1.09)	0.88 (0.56-1.39)	1	0.96 (0.69-1.35)	0.95 (0.61-1.49)
	UK	303	466	1.00 (0.14-7.10)	0.77 (0.18-3.21)	1.05 (0.57-1.96)	1	1.77 (1.16-2.70)	2.97 (1.43-6.16)
Miscellaneous lymphoreticular neoplasms	USA	142	53716	n/d	1.06 (0.46-2.46)	0.76 (0.44-1.30)	1	0.88 (0.59-1.32)	0.90 (0.52-1.56)
	UK	15	19	n/d	n/d	1.00 (0.06-15.99)	1	0.82 (0.17-3.86)	n/d
Unspecified lymphomas	USA	54	53716	2.33 (0.37-14.5)	1.15 (0.24-5.51)	1.46 (0.63-3.37)	1	1.45 (0.73-2.87)	1.33 (0.53-3.29)
	UK	32	45	n/d	n/d	5.50 (0.36-85.19)	1	4.00 (0.47-34.07)	1.00 (0.06-15.99)
Germ cell tumours, trophoblastic tumours and neoplasms of gonads									
Total	USA	527	53716	0.56 (0.23-1.34)	0.96 (0.58-1.58)	0.98 (0.74-1.29)	1	1.16 (0.94-1.43)	1.28 (0.96-1.69)
	UK	785	1095	1.08 (0.50-2.35)	0.73 (0.36-1.48)	1.36 (0.94-1.97)	1	1.25 (0.94-1.64)	2.14 (1.31-3.49)
Intracranial and intraspinal germ cell tumours	USA	115	53716	1.36 (0.30-6.27)	1.17 (0.43-3.18)	1.55 (0.92-2.62)	1	1.14 (0.72-1.81)	0.89 (0.45-1.77)
	USA ^c	127	57569	1.31 (0.40-4.23)	1.29 (0.55-3.03)	1.45 (0.89-2.36)	1	0.98 (0.63-1.52)	0.73 (0.38-1.42)
	USA ^d	115	48844	1.47 (0.45-4.79)	1.44 (0.61-3.41)	1.50 (0.90-2.50)	1	0.95 (0.59-1.52)	0.82 (0.42-1.61)
	UK	232	334	1.67 (0.40-6.97)	0.36 (0.10-1.25)	1.18 (0.61-2.29)	1	1.19 (0.71-1.99)	3.62 (1.26-10.35)
Malignant extracranial and extragonadal germ cell tumours	USA	131	53716	n/d	0.44 (0.13-1.52)	0.49 (0.25-0.95)	1	1.17 (0.78-1.76)	1.44 (0.85-2.45)
	USA ^c	134	57569	n/d	0.57 (0.18-1.83)	0.51 (0.27-0.98)	1	1.12 (0.75-1.67)	1.52 (0.92-2.51)
	USA ^d	83	48844	n/d	0.56 (0.13-2.34)	0.44 (0.18-1.05)	1	1.23 (0.75-2.02)	1.36 (0.70-2.65)
	UK	229	325	1.45 (0.39-5.41)	1.89 (0.46-7.79)	1.47 (0.76-2.84)	1	2.16 (1.22-3.83)	1.40 (0.61-3.19)
Malignant gonadal germ cell tumours	USA	262	53716	0.47 (0.13-1.76)	1.30 (0.68-2.50)	1.02 (0.69-1.50)	1	1.11 (0.82-1.50)	1.33 (0.90-1.95)
	UK	309	414	0.53 (0.13-2.18)	0.87 (0.24-3.19)	1.63 (0.86-3.08)	1	1.04 (0.68-1.60)	2.90 (1.25-6.76)
Gonadal carcinomas	USA	7	53716	n/d	n/d	n/d	1	n/d	n/d
	UK	8	11	n/d	n/d	n/d	1	n/d	n/d
Other and unspecified malignant gonadal tumours	USA	12	53716	n/d	n/d	1.05 (0.18-5.97)	1	2.21 (0.62-7.97)	n/d
	UK	7	11	n/d	n/d	0.60 (0.05-7.92)	1	0.60 (0.05-7.92)	n/d

n/d = not determined as only 1 case.

^a Data was adjusted for sex, period and region of birth. USA data was further adjusted for gestational age, birth order, plurality, maternal age and race/ethnicity. This information was not available for UK data.

^b Odds ratios (95% confidence intervals). Odds ratios whose 95% confidence intervals are above the null value (1) are bold, below the null value are bold italic.

^c Data unadjusted except for matching factors (state, year of birth and sex).

^d Data unadjusted except for matching factors (state, year of birth and sex) and excluding cases and controls from the California dataset.

Table S2 (continued): Childhood cancers whose risk associates with birthweight in only one of the USA or UK datasets: analysis by birthweight category

Cancer	Dataset ^a	Cases	Controls	Birthweight category (kg) ^b					
				0.50-1.99	2.00-2.49	2.50-2.99	3.00-3.49	3.50-3.99	≥4.00
Other malignant epithelial neoplasms and malignant melanomas									
Total	USA	366	53716	1.10 (0.47-2.57)	1.05 (0.60-1.84)	0.99 (0.72-1.37)	1	1.11 (0.86-1.43)	0.97 (0.67-1.40)
	UK	563	847	1.00 (0.31-3.20)	1.32 (0.62-2.83)	0.74 (0.48-1.15)	1	1.38 (1.01-1.87)	1.12 (0.67-1.88)
Adrenocortical carcinomas	USA	20	53716	n/d	n/d	n/d	1	1.26 (0.44-3.61)	1.91 (0.55-6.69)
	UK	39	57	2.00 (0.13-31.98)	n/d	n/d	1	3.00 (1.06-8.53)	1.67 (0.31-8.93)
Thyroid carcinomas	USA	141	53716	0.61 (0.15-2.47)	0.70 (0.28-1.75)	0.77 (0.46-1.29)	1	1.05 (0.71-1.56)	0.58 (0.29-1.18)
	UK	107	174	n/d	1.80 (0.26-12.50)	0.65 (0.27-1.58)	1	0.66 (0.29-1.52)	1.00 (0.23-4.44)
Nasopharyngeal carcinomas	USA	10	53716	n/d	n/d	n/d	1	0.50 (0.09-2.62)	n/d
	UK	28	43	n/d	n/d	n/d	1	2.63 (0.65-10.58)	1.33 (0.13-13.74)
Malignant melanomas	USA	114	53716	n/d	1.30 (0.43-3.94)	1.78 (1.02-3.13)	1	1.35 (0.84-2.17)	1.66 (0.93-2.97)
	USA ^c	121	57569	n/d	1.16 (0.41-3.28)	1.82 (1.07-3.08)	1	1.34 (0.84-2.14)	1.86 (1.07-3.23)
	USA ^d	108	48844	n/d	0.92 (0.28-3.01)	1.84 (1.07-3.17)	1	1.23 (0.75-2.02)	1.59 (0.88-2.88)
	UK	152	215	0.60 (0.05-7.92)	0.33 (0.07-1.65)	1.12 (0.45-2.79)	1	1.35 (0.77-2.39)	0.90 (0.36-2.25)
Skin carcinomas	USA	3	53716	n/d	n/d	n/d	1	n/d	n/d
	UK	102	162	n/d	0.50 (0.05-5.51)	0.67 (0.23-1.92)	1	1.46 (0.68-3.11)	2.21 (0.75-6.55)
Other and unspecified carcinomas	USA	78	53716	2.98 (0.76-11.7)	1.68 (0.60-4.71)	0.84 (0.40-1.74)	1	1.01 (0.56-1.75)	0.66 (0.27-1.60)
	UK	135	196	1.33 (0.13-13.74)	n/d	0.33 (0.13-0.84)	1	1.35 (0.72-2.56)	0.50 (0.12-2.10)
Other and unspecified malignant neoplasms^e									
Total	USA	77	53716	1.26 (0.22-7.33)	0.34 (0.04-2.66)	1.07 (0.50-2.30)	1	1.68 (0.95-2.97)	2.47 (1.25-4.85)
	UK	152	235	1.33 (0.31-5.82)	0.53 (0.13-2.18)	0.90 (0.41-1.97)	1	1.10 (0.60-2.02)	0.88 (0.32-2.39)
Other specified malignant tumours	USA	11	53716	n/d	n/d	n/d	1	7.56 (0.90-63.25)	n/d
	UK	24	32	n/d	0.50 (0.05-5.51)	n/d	1	2.25 (0.53-9.52)	1.33 (0.13-13.74)
Other unspecified malignant tumours	USA	31	53716	n/d	n/d	0.63 (0.17-2.35)	1	1.55 (0.66-3.61)	1.76 (0.59-5.25)
	UK	128	203	1.00 (0.21-4.81)	0.55 (0.09-3.16)	1.06 (0.47-2.41)	1	0.92 (0.47-1.83)	0.81 (0.26-2.47)

n/d = not determined as only 1 case.

^a Data was adjusted for sex, period and region of birth. USA data was further adjusted for gestational age, birth order, plurality, maternal age and race/ethnicity. This information was not available for UK data.

^b Odds ratios (95% confidence intervals). Odds ratios whose 95% confidence intervals are above the null value (1) are bold, below the null value are bold italic.

^c Data unadjusted except for matching factors (state, year of birth and sex).

^d Data unadjusted except for matching factors (state, year of birth and sex) and excluding cases and controls from the California dataset.

^e Cancers which were unclassifiable based on site and morphology combination were included in this group.