Table 2.8 Case-control studies on cancer of the haematopoietic system and welding/welding fumes (web only)

Reference, location, enrolment/follow- up period	Population size, description, exposure assessment method	Organ site	Exposure category or level	Exposed cases/ deaths	Risk estimate (95% CI)	Covariates controlled	Comments
Preston-Martin & Peters (1988) Los Angeles, USA 1979–1985	Cases: 130; histologically confirmed chronic myeloid leukaemia cases Controls: 130; individually matched neighbourhood controls (on sex, race, ± 5 year birth year) Exposure assessment method: Questionnaire; telephone questionnaire asking whether ever worked in eleven specific occupations or industries; same interviewer for case and control. These eleven were chosen because of their suggested possible relationship to leukaemia risk	Leukaemia (CML)	Welder (ever)	22	25.4 (2.78–232.54)	Diagnostic radiography dose, ever lived on farm, self or first degree relative with Down syndrome or thalassemia minor	Strengths: analyses were focused specifically on welding Limitations: small size. small number of exposed controls (4)
Persson et al. (1989) Sweden 1964–1986	Cases: 160; malignant lymphoma cases, both HD and NHL, were obtained from the register of the Department, at least 20 years old, hospital-based Controls: 275; population register for other studies, Exposure assessment method: Questionnaire; full occupational history and questions about specific exposures	NHL	Welding	7	1 (0.3–2.7)	Age, sex, farming, exposure to fresh wood	Strengths: full occupational history and self-report of specific exposures obtained Limitations: small size

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Persson et al.	Cases:	NHL	Welding	NR	1 (0.3–2.7)	Logistic odds ratio	Malignant histiocytosis
(1989) Sweden 1964–1986	160; Hospital (106 NHL, 54 HL) cases Controls: 275; withdrawn from population registries Exposure assessment method: Questionnaire; Minimum duration of exposure: 1 year; minimum latency: 5 years	HL	Welding	NR	5.4 (2–15)	Logistic odds ratio	and T-cell lymphoma were excluded Strengths: Pathology was available Limitations: Small size; only surviving cases included; reliance on self-reported exposure information
Siemiatycki (1991)	Cases: 215; Male residents of the	NHL	Welders and flame cutters (any)	4	0.8 (0.4–2)	Age, family income, cigarette index	Strengths: expert assessment
Canada, Montreal 1979–1985	Montreal metropolitan area with histologically confirmed incident NHL, age 35–70		Arc welding fumes (any)	20	0.8 (0.6–1.2)		Limitations: cancer controls
	Controls: 2890; 2357 study subjects with		Arc welding fumes (substantial)	6	0.8 (0.4–1.7)		
	other cancers and 533 population-based controls Exposure assessment method:		Gas welding fumes (any)	18	0.8 (0.5–1.2)		
	Expert judgement; full occupational history, specific job modules, expert assessment		Gas welding fumes (substantial)	6	0.7 (0.4–1.5)		
Eriksson & Karlsson (1992) Sweden 1982–1986	Cases: 256; National Cancer Registry Controls: 256; National Population Registry, or National Death Registry of the Causes of Death, matched by age, sex, vital status, and county. Exposure assessment method: Questionnaire	MM (Multiple myeloma)	Welding	3	0.43 (0.14–1.12)	None	Strengths: Cases validated from cancer registry

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Reference, location, enrolment/follow- up period	Population size, description, exposure assessment method	Organ site	Exposure category or level	Exposed cases/ deaths	Risk estimate (95% CI)	Covariates controlled	Comments
Heineman et al. (1992) Denmark 1970–1984	Cases: 835; men diagnosed with MM and reported to the Danish cancer registry Controls: 2979; population controls, matched on sex and year of birth Exposure assessment method: Questionnaire; occupation obtained through linkage with Danish Supplementary Pension Fund	MM	Men only: Welder	6	2 (0.6–5.7)	Age	Strengths: large size
Demers et al. (1993) USA (King and Pierce counties in Washington State; Davis, Salt Lake, Utah, and Weber Counties in Utah; five counties of metropolitan Atlanta; and the three metropolitan Detroit counties). 1977–1981	Cases: 692; Newly diagnosed MM cases under age 80 identified through tumour registries participating in SEER. For 32% interviews were conducted with a proxy. Controls: 1683; population controls, frequency matched to the cases on age and sex and resident in the same areas as the cases. Exposure assessment method: Questionnaire; lifetime work histories. Occupations and industries coded using the 1970 US Census codes	MM	Welders and cutters Welder and cutters (self-responding cases only)	22 14	1.2 (0.7–2) 1.3 (0.6–2.6)	Sex, race, age, study area	Strengths: large size, lifetime work histories collected through interview. Limitations: 32% of the case interview were with proxies, but results were also presented without these

Table 2.8 Case-control studies on cancer of the haematopoietic system and welding/welding fumes (web only)

Reference, location, enrolment/follow- up period	Population size, description, exposure assessment method	Organ site	Exposure category or level	Exposed cases/ deaths	Risk estimate (95% CI)	Covariates controlled	Comments
Keller & Howe (1993) Illinois, USA 1986–1989	Cases: 1034; newly diagnosed male leukaemia cases reported in Illinois by Illinois hospitals. Controls: 4396; random sample of approximately 10% of all other cancers Exposure assessment method: Questionnaire; job title recorded at cancer registration	Leukaemia	Men: Welder	NR	1.63 (0.72–3.7)	Age, history of tobacco use	This study reports on multiple cancer sites Limitations: only welders within the construction industry are selected in the exposed group. It is unclear how many welders (outside of the construction industry) are categorized as unexposed
Persson et al. (1993) Sweden 1975–1984	Cases: 93; NHL cases from cancer registry and hospital Controls: 204; randomly drawn from population registries Exposure assessment method: Questionnaire	NHL (Non- Hodgkin lymphoma)	Welding	15	2.3 (1–5.1)	Age	Strengths: study conducted to confirm/refute findings of earlier Persson study in an adjacent geographic region. Limitations: very small size
Persson et al. (1993)	Cases: 124; 31 cases of HD cases from	HL (Hodgkin lymphoma)	Welding	3	1.2	None	Study too small, exclude.
Sweden 1975–1984	cancer registry and 93 cases of NHL Controls: 204; population controls Exposure assessment method: Ouestionnaire	NHL (Non- Hodgkin lymphoma)	Welding	15	2.3 (1–5.1)	Logistic odds ratio	Overlap with Persson 1989? Limitations: small number of HD cases

Table 2.8 Case-control studies on cancer of the haematopoietic system and welding/welding fumes (web only)

Reference, location, enrolment/follow- up period	Population size, description, exposure assessment method	Organ site	Exposure category or level	Exposed cases/ deaths	Risk estimate (95% CI)	Covariates controlled	Comments
Figgs et al. (1995) USA (24 states) 1984–1989	Cases: 23 890; NHL deaths Controls: 119 450; noncancer controls deaths, similar distribution with cases in terms of residence (rural vs urban), autopsy status, and geographic region of residence Exposure assessment method: Questionnaire; job from death certificate	NHL (Non- Hodgkin lymphoma)	Black males: Welders	6	2.1 (0.8–5.8)		Strengths: very large size Limitations: no information on confounders. Only NHL deaths. Only occupation on death certificate
Costantini et al. (1998) Italy (multicentre) 1991–1993	Cases: 1388; hospital-based Controls: 1718; population-based Exposure assessment method: Questionnaire	NHL (Non- Hodgkin lymphoma)	Welders	28	1.7 (0.92–3.02)	To be extracted from paper	Included in the 't Mannetje et al. (2016) pooled analysis
Mao et al. (2000) Canada (8	Cases: 1469; histologically confirmed	NHL (Non- Hodgkin	Welding (men)	173	1.1 (0.9–1.3)	Age, province, BMI, milk consumption,	Strengths: large size, specific question about
provinces) 1994–1997	incident NHL cases Controls: 5073; without cancer, having the same distribution of age/sex with cases, selected from a random sample of the provinces. Exposure assessment method: Questionnaire; occupation and self-report of 17 exposures including welding	lymphoma)	Welding (women)	18	1.3 (0.7–2.3)	education (women only)	welding Limitations: not entirely clear whether the full occupational history was collected

Table 2.8 Case-control studies on cancer of the haematopoietic system and welding/welding fumes (web only)

Reference, location, enrolment/follow- up period	Population size, description, exposure assessment method	Organ site	Exposure category or level	Exposed cases/ deaths	Risk estimate (95% CI)	Covariates controlled	Comments
Bethwaite et al. (2001) New Zealand 1989–1991	Cases: 110; incident leukaemia cases Controls: 199; general population controls Exposure assessment method: Questionnaire	Leukaemia: acute (AML and ALL combined)	Welders/flame cutters	14	2.79 (1.2–6.8)	Educational attainment, sex, age	Limitations: small size
Costantini et al. (2001) Italy (multicentre) 1991–1993	Cases: 1450; newly diagnosed cases, both male and female, aged 20–74, population Controls: 1779; a random sample of the general population, stratified by sex and 5-year age groups Exposure assessment method: Questionnaire; Face-to-face interviews collecting entire working history, followed by exposure-specific questions on chemicals, solvents, and pesticides from a job-specific questionnaire developed by industrial hygienists and agronomists. Industrial hygienists and agronomists assisted in determining the occupational exposures of each subject	NHL (Non-Hodgkin lymphoma): includes CLL	Welders	19	1.2 (0.6–2.3)	Age	Same study population as Costantini et al. (1998)? Included in the 't Mannetje et al. (2016) pooled analysis. Strengths: detailed occupational history collected, as well as exposure specific questions and expert assessment. Large size

Table 2.8 Case-control studies on cancer of the haematopoietic system and welding/welding fumes (web only)

Reference, location, enrolment/follow- up period	Population size, description, exposure assessment method	Organ site	Exposure category or level	Exposed cases/ deaths	Risk estimate (95% CI)	Covariates controlled	Comments
Costantini et al. (2001) Italy (multicentre) 1991–1993	Cases: 652; leukaemia cases (ICD-9: 204–208) Controls: 1779; general population, stratified by sex and 5-yearr age groups Exposure assessment method: Questionnaire; Face to face interviews collecting entire working history, followed by exposure-specific questions on chemicals, solvents, and pesticides from a job-specific questionnaire developed by industrial hygienists and agronomists. Industrial hygienists and agronomists assisted in determining the occupational exposures of each subject	Leukaemia	Males only: Welder	6	0.9 (0.3–2.3)	Age	Strengths: detailed occupational history collected, as well as exposure specific questions and expert assessment. Large size
Costantini et al. (2001)	Cases: 365; incident cases of	HL (Hodgkin lymphoma)	Welders	2	0.6 (0.1–2.9)	Age	
Italy (multicentre) 1991–1993	malignancies of the haematolymphopoietic system Controls: 1779; general population, stratified by sex and 5-year age groups Exposure assessment method: Questionnaire	MM (Multiple myeloma)	Welders	7	3.3 (1.3–8.5)	Age	

Table 2.8 Case-control studies on cancer of the haematopoietic system and welding/welding fumes (web only)

Reference, location, enrolment/follow- up period	Population size, description, exposure assessment method	Organ site	Exposure category or level	Exposed cases/ deaths	Risk estimate (95% CI)	Covariates controlled	Comments
Fabbro-Peray et al. (2001)	Cases: 445; incident cases of	NHL (Non- Hodgkin	Never /occasionally welding (ref)	404	1	Age, sex, urban setting, education	The authors discuss electromagnetic
France (Languedoc-	histologically confirmed malignant lymphomas, aged 18	lymphoma)	Welding (often)	17	1.7 (0.8–3.4)		radiation exposure as a possible explanation
Roussillon)	years or older and had negative		Welding (daily)	23	2.6 (1.4–5.1)		for the elevated risk in
1992–1996	serology for HIV. Controls:	NHL (Non-	Duration in years			Age, sex, urban	welders. Strengths: relatively
	1025; randomly selected from	Hodgkin lymphoma)	Welding: 0 (ref)	404	1	setting, education	large number of
	electoral lists, at least age 18 years; cases and controls were	lymphoma,	≤ 13	17	2.7 (1.3–5.5)		exposed cases and controls, detailed
	unmatched Exposure assessment method:		> 13	21	1.8 (0.9–3.5)		information on occupational exposures from questionnaire, providing ability to adjust for these including benzene. Frequency of welding was assessed. Limitations: no detailed exposure assessment to welding fumes
	Questionnaire; full occupational history collected and also specific occupational exposures through questionnaire	NHL (Non- Hodgkin lymphoma)	Frequency			Age, sex, level of education, rural/urban setting, reported medical history, benzene, pesticides/agricultural occupation, radio operator occupation	
			Welding: Never/occasionally welding (ref)	404	1		
			Often	17	1.4 (0.7–2.9)		
			Daily	23	2.5 (1.2–5)		
Oppenheimer and		Leukaemia (AML)	Welder (ever)	17	0.8 (0.4–1.7)	None	
Preston-Martin (2002) Los Angeles, USA 1987–1994	412; Acute Myeloid Leukaemia cases Controls: 412; neighbourhood controls individually matched to cases on birth years (+/- 5 years), race, sex Exposure assessment method: Ouestionnaire		Welding (ever) excluding proxy pairs	14	2.2 (0.8–7)		

Table 2.8 Case-control studies on cancer of the haematopoietic system and welding/welding fumes (web only)

Questionnaire

Reference, location, enrolment/follow- up period	Population size, description, exposure assessment method	Organ site	Exposure category or level	Exposed cases/ deaths	Risk estimate (95% CI)	Covariates controlled	Comments
Zheng et al. (2002) 611; incident (555 NHL, 56 USA (Kansas, Nebraska) Women included 1979–1981 Controls: 2380; population (1673 men, 707) women, frequency matched to cases by sex, age (+/- 5 years), race, vital status and state of residence using approximately a 4:1 matching ratio Exposure assessment method: Questionnaire; usual occupation collected through the telephone interview	611; incident (555 NHL, 56 CLL) from two studies, men and women included Controls: 2380; population (1673 men,	NHL (Non- Hodgkin lymphoma)	Welders and solderers	9	2.9 (1.2–6.9)	Age, state of residence, type of respondent, pesticides, first-degree relative with lymphatic or haematopoietic cancer	Strengths: population controls Limitations: only usual occupation collected
	NHL (DLBCL)	Welders and solderers	5	3.4 (1.2–9.8)	Age, state of residence, type of respondent, pesticides, first-degree relative with lymphatic or haematopoietic cancer		
	Questionnaire; usual occupation collected through the telephone	NHL (SLL/CLL)	Welders and solderers	1	3 (0.4–25.2)	Age, state of residence, type of respondent, pesticides, first-degree relative with lymphatic or haematopoietic cancer	
Adegoke et al. (2003) Shanghai, China 1987–1989	Cases: 486; leukaemia subjects Controls: 502; healthy controls residing in Shanghai Exposure assessment method:	Leukaemia	Welders and sheet metal	9	1.3 (0.5–3.6)	Age, sex, income	Occupational category too broad to be excluded?

Table 2.8 Case-control studies on cancer of the haematopoietic system and welding/welding fumes (web only)

Reference, location, enrolment/follow- up period	Population size, description, exposure assessment method	Organ site	Exposure category or level	Exposed cases/ deaths	Risk estimate (95% CI)	Covariates controlled	Comments
Band et al. (2004) Canada (BC) 1983–1990	Cases: 769; NHL cases, grouped by pathogenic type Controls: 9076; internal controls, consisting of all other cancer sites excluding lung cancer, and cancers of unknown primary site, having at least 1 matching control per case Exposure assessment method: Questionnaire; self-administered job descriptions of full occupational history	NHL (Non- Hodgkin lymphoma): Diffuse small cell cleaved	Welding and flame cutting (Diffuse small cleaved-cell lymphoma, $n = 127$ )	4	3.6 (1.45–8.97)	Marital status, education, smoking, alcohol, self/proxy	ORs for other NHL subtypes were not reported, because for those a statistically significant OR for welding was not observed. NOTE: may be available online Strengths: large size Limitations: OR for all NHL not reported. small number of welder cases
Baris et al. (2004) USA (Atlanta, Detroit, New Jersey) 1986–1989	Cases: 573; newly diagnosed MM cases age 30–79 Controls: 2131; population controls from the same areas proportional to the expected race, sex and age of the 4 cancer sites included in the study. Exposure assessment method: Questionnaire; Personal interview at home, collecting full occupational history. For women only the usual occupation was collected		Welders and solderers	10	0.82 (0.41–1.63)	Sex, race, state of residence, education	

Table 2.8 Case-control studies on cancer of the haematopoietic system and welding/welding fumes (web only)

Reference, location, enrolment/follow- up period	Population size, description, exposure assessment method	Organ site	Exposure category or level	Exposed cases/ deaths	Risk estimate (95% CI)	Covariates controlled	Comments
Dryver et al. (2004) Sweden	Cases: 859; NHL cases identified through cancer registry	NHL (Non- Hodgkin lymphoma)	Welding	73	1.42 (1.01–1.99)	Matching variables sex, age, parish	Strengths: detailed exposure assessment through self-report
1990–1998	Controls: 1310; matched on sex, age and	NHL (Non-	Welding fumes	101	0.98 (0.73–1.3)	Matching variables	
	parish, population based Exposure assessment method: Questionnaire; The questionnaire collected the full occupational history, with specific focus on 25 industries including welding and 16 specific exposures including welding fumes. A job-exposure matrix was also applied (FINJEM), but for exposures other than welding fumes	Hodgkin lymphoma)	Welding fumes ≥ 5 vs < 5 years	49	0.96 (0.62–1.47)	sex, age, parish	
't Mannetje et al. (2008) New Zealand 2003–2004	Cases: 291; NHL cased from new Zealand cancer registry (aged 25–70) Controls: 471; randomly selected from the new Zealand electoral roll, frequency matched by age Exposure assessment method: Questionnaire; full occupational history collected through face to face interviews	NHL (Non- Hodgkin lymphoma)	Men only: Fitter and welder	5	0.99 (0.31–3.12)	Sex, age group, smoking status, Maori ethnicity, occupational status	Strengths: full occupational history Limitations: small size and small number of welder cases

Table 2.8 Case-control studies on cancer of the haematopoietic system and welding/welding fumes (web only)

Reference, location, enrolment/follow- up period	Population size, description, exposure assessment method	Organ site	Exposure category or level	Exposed cases/ deaths	Risk estimate (95% CI)	Covariates controlled	Comments
Karunanayake et al. (2008) Canada (6 provinces) 1991–1994	Cases: 513; incident male NHL cases, the mean age was 57.7 Controls: 1506; population-based controls. frequency matched on age (+/-) 2 years Exposure assessment method: Questionnaire; self-administered postal questionnaire also asking about specific exposures in the full occupational history	NHL (Non- Hodgkin lymphoma)	Only men: Welder	13	1.25 (0.64–2.44)	Age, province of residence	Strengths: large size, full occupational history Limitations: no specific welding fumes exposure assessment
Wong et al. (2010) Shanghai, China 2003–2007	Cases: 722; newly diagnosed AML cases Controls: 1298; hospital controls matched by age and sex Exposure assessment method: Questionnaire	Leukaemia (AML)	Welding	14	1.49 (0.74–3.02)	•	Results by AML subtype are also reported Strengths: large size
Luckhaupt et al.	Cases:	Leukaemia	Men only: Welders	21	1.12 (0.7–1.81)		Strengths: large size,
(2012) California, USA	1703; male leukaemia cases (age 18–97) from the California	Leukaemia (AML)	Men only: Welders	7	1.56 (0.67–3.66)		results presented for leukaemia subtypes
1988–2007	Cancer Registry, that worked in the construction industry Controls: Up to 5 controls; cancer controls (with cancers not thought to be related to exposures common in construction), that worked in the construction industry Exposure assessment method: Questionnaire	Leukaemia (CML)	Men only: Welders	4	0.86 (0.29–2.53)		Limitations: cancer controls

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Reference, location, enrolment/follow- up period	Population size, description, exposure assessment method	Organ site	Exposure category or level	Exposed cases/ deaths	Risk estimate (95% CI)	Covariates controlled	Comments
't Mannetje et al. (2016) pooled analysis (10 studies from Europe, USA, Canada, Australia) 1988–2004	Cases: 10 046; incident histologically confirmed cases Controls: 12 025; hospital or population depending on study Exposure assessment method: Questionnaire; job title collected through interview. Full occupational history available for 8 out of 10 studies	NHL (Non- Hodgkin lymphoma)	Welders (ever)	174	1.03 (0.83–1.27)	Age, sex, study centre	and analyses by subtype Limitations: specific exposure to welding fumes not assessed
			Welders male (ever)	141	1.01 (0.8–1.27)		
			Welders female (ever)	33	1.06 (0.66–1.71)		
			Welders (> 10 years)	53	1.01 (0.69–1.48)		
			Welders male (> 10 years)	46	0.91 (0.61–1.36)		
		NHL (DLBCL)	Welders (ever)	67	1.31 (0.99–1.74)	Age, sex, study centre	
			Welders (> 10 years)	18	1.2 (0.7–2.05)		
		NHL (Follicular)	Welders (ever)	26	0.81 (0.53–1.23)	Age, sex, study centre	
			Welders (> 10 years)	10	1.25 (0.63–2.49)		
-	11 C 1 1 C AM	NHL (SLL/CLL)	Welders (ever)	19 CT CT 1	0.97 (0.59–1.6)	Age, sex, study centre	CM 1 : 1:1

ALL, acute lymphoblastic leukaemia; AML, acute myeloid leukaemia; BMI, body mass index; CI, confidence interval; CLL, chronic lymphocytic leukaemia; CML, chronic myeloid leukaemia; DLBCL, diffuse large B-cell lymphoma; HL, Hodgkin lymphoma; MM, multiple myeloma; NHL, non-Hodgkin lymphoma; NR, not reported; OR, odds ratio; SEER, Surveillance, Epidemiology, and End Results Program; SLL, small lymphocytic lymphoma

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