

Supplemental Table 3. Comparison of the current meta-analysis to the previous meta-analyses by Gatto *et al.* (2010)¹ and Cole and Rodu (2005)²

Current meta-analysis					Gatto <i>et al.</i> , (2010)			Cole and Rodu (2005)			
Author	Year	Location	Number of cases	Industry or occupation; exposure group if more than one	RR (95% CI)	Used	RR (95% CI)	Notes	Used	RR (95% CI)	Notes
Axelsson <i>et al.</i> , 1980 ³		Sweden	4	Ferrochromium production; ≥ 15 years employment	0.78 (0.21-2.01)	Yes	Near 1.0 ^a		Yes	0.91 (0.45-1.63)	Combined multiple job types Used all welders regardless of time spent welding
Becker, 1999 ⁴		Germany	4	Arc welders; effective welding period > 25% of work day	1.12 (0.30-2.86)	Yes	<1.0 ^a		Yes	0.65 (0.21-1.51)	
Davies <i>et al.</i> , 1991 ⁵		UK: Bolton	6	Chromate production; early and pre-process change workers	2.08 (0.76-4.53)	Yes	Same ^b		Yes	Same ^b	
Davies <i>et al.</i> , 1991 ⁵		UK: Rutherglen	9	Chromate production; early and pre-process change workers	0.70 (0.32-1.32)	Yes	Same ^b		Yes	Same ^b	
Davies <i>et al.</i> , 1991 ⁵		UK: Eaglescliff	4	Chromate production; early and pre-process change workers	0.39 (0.10-0.99)	Yes	Same ^b		Yes	Same ^b	
Gibb <i>et al.</i> , 2000 ⁶		US	NA	Chromate production workers	Not used	Yes	<1.0 ^a	Unpublished	Yes	0.40 (0.08-1.17)	Unpublished
Luippold <i>et al.</i> , 2003 ⁷		US	NA	Chromate production	Not used	Yes	<1.0 ^a	Unpublished	Yes	0.47 (0.01-2.62)	Unpublished
Pippard <i>et al.</i> , 1985 ⁸		UK	2	Leather tanning; male chrome tanners.	0.52 (0.06-1.87)	Yes	Same ^b		Yes	0.51 (0.06-1.84)	Calculated SMR and CI based on O and E, we used the SMR presented by authors.
Simonato <i>et al.</i> , 1991 ⁹		4 Scandinavian countries	18	Stainless steel welding; cohort included mild steel, stainless steel and shipyard welders. Incidence data.	0.85 (0.50-1.34)	Yes	0.96 (0.63-1.40)	Used mortality rather than incidence data	Yes	0.96 (0.63-1.41)	Used mortality rather than incidence data
Sorahan & Harrington, 2000 ¹⁰		UK: Yorkshire, 54 plants	12	Chrome plating; male platers and others exposed to chromic acid, employed ≥ 3 consecutive months.	1.68 (0.87-2.94)	Yes	Same ^b		Yes	1.56 (0.81-2.73)	Includes men and women

Boice et al., 1999 ¹¹	California	11	Aircraft manufacturing; workers with potential exposure to chromate	Not used	Yes	Near 1.0 ^a		No
Costantini et al., 1989 ¹²	Italy: Tuscany	6	Leather tanning; male tanners	0.43 (0.16-0.94)	Yes	Same ^b		No
Deschamps et al., 1995 ¹³	France	2	Chromate production; chromate pigment workers	1.52 (0.18-5.50)	Yes	Same ^b		No
Franchini et al., 1983 ¹⁴	Italy	1	Chrome plating; "hard" plating workers	3.33 (0.04-18.55)	Yes	Same ^b		No
Guberan et al., 1989 ¹⁵	Geneva, Switzerland	5	Painters	Not used	Yes	0.24 (0.01-1.16)	Painters	No
Hara et al., 2010 ¹⁶	Japan: Tokyo	14	Chrome plating; male platers, mean age at baseline = 49.5 years	0.67 (0.37-1.06)	Yes	Same ^b	Labeled as Hara 2009	No
Hayes et al., 1989 ¹⁷	New Jersey	2	Chromate pigment production; 10+ years of exposure to chromate dusts	2.14 (0.24-7.73)	Yes	>1.0 ^a	SMR appears <2.14	No
Horiguchi et al., 1990 ¹⁸	Japan: Osaka	2	Chrome plating; workers employed 10 or more years	1.43 (0.02-7.50)	Yes	1.23 (0.25-3.58)	May not have incorporated duration	No
Iaia et al., 2006 ¹⁹	Tuscany, Italy	1	Leather tanners	Not used	Yes	0.27 (0.01-1.26)	Overlap with Constantini et al., 1989 (which had more cases)	No
Kano et al., 1993 ²⁰	Japan	8	Chromate pigment production	1.20 (0.52-2.37)	Yes	Same ^b		No
Korallus et al., 1993 ²¹	Germany: Uerdingen	12	Chromate production; workers exposed ≥ 1 year.	1.92 (1.04-3.24)	Yes	Same ^b	Different plants were combined	No
Korallus et al., 1993 ²¹	Germany: Leverkusen	4	Chromate production; workers exposed ≥ 1 year.	0.63 (0.17-1.60)	Yes	Same ^b		No
Langård et al., 1990 ²²	Norway	7	Ferrocromium production; workers first employed before 1960.	1.45 (0.58-2.99)	Yes	Same ^b		No
Montanaro et al., 1997 ²³	Italy: Genoa	10	Leather tanning; male and female workers employed ≥ 6 months between 1/1/1955 and 5/12/1988.	0.79 (0.38-1.46)	Yes	Same ^b		No
Moulin et al., 1990 ²⁴	France	4	Ferrocromium and stainless steel production; workers employed ≥ 1 year in ferrocromium or stainless steel workshops.	2.75 (0.75-7.01)	Yes	Same ^b		No

Moulin et al., 1993b ²⁵	France	6	Stainless steel and mild steel welding; men employed as welders ≥ 1 year at beginning of follow up period.	2.09 (0.77-4.55)	Yes	Same ^b		No
Rafnsson et al., 1997 ²⁶	Iceland	15	Masons; men with a 30 year lag between finishing vocational training and counting person-years.	1.27 (0.71-2.09)	Yes	Near 1.0	May not have used latency data	No
Rosenman & Stanbury, 1996 ²⁷	US: New Jersey	2	Chromium smelter; former workers employed > 20 years.	1.87 (0.21-6.76)	Yes	>1.0		No
Satoh et al., 1981 ²⁸	Japan: Tokyo	11	Chromium production; men employed ≥ one year between 1918 and 1975.	0.95 (0.47-1.70)	Yes	Same ^b		No
Silverstein et al., 1981 ²⁹	US: Michigan	4	Chrome plating: males; employees and retirees with ≥ 10 years of service in the plant.	2.54 (0.68-6.50)	Yes	Same ^b		No
Sorahan et al., 1994 ³⁰	UK: nine foundries	124	Steel foundry workers	Not used	Yes	1.34 (1.11-1.60)	Foundry workers	No
Sorahan et al., 1987 ³¹	UK: Midlands, 1 plant	13	Chrome plating: males; first employment chrome bath work.	2.06 (1.10-3.52)	Yes	> 1.0	Combined males and females	No
Sorahan et al., 1987 ³¹	UK: Midlands, 1 plant	1	Chrome plating: females; first employment chrome bath work.	0.32 (0.01-1.78)	Yes	See above	Combined males and females	No
Jakobsson et al., 1997 ³²	Sweden	8	Stainless steel grinding; workers diagnosed ≥ 15 years after start of employment	0.8 (0.3-1.7)	No			Yes 0.83 (0.36-1.64) Minor differences in calculations
Takahashi et al., 1990 ³³	Tokyo, Japan	7	Chrome plating	Not used	No			Yes 0.92 (0.37-1.90) Overlap with Hara et al., , 2010
Zhang et al., 1997 ³⁴	China		Drinking water contamination	Not used	No			Yes 0.75 (0.44-1.20) Drinking water exposure
Ahn et al., 2006 ³⁵	Korea	2	Iron and steel production; stainless steel production work, 10-35 years duration	13.65 (0.76-66.26)	No			No
Amandus, 1986 ³⁶	US	16	Non-asbestos cement plants; > 20 years tenure in cement plant, ≥ 20 years latency	1.27 (0.73-2.06)	No			No
Dab et al., 2011 ³⁷	France	3	Cement production; employed ≥ one year from 1990 to 2005	0.38 (0.08-1.26)	No			No

Danielsen et al., 1996 ³⁸	Norway	3	Boiler welders ever welding on stainless steel	1.03 (0.21-3.03)	No	No
Edling et al., 1986 ³⁹	Sweden	6	Leather tanning; occupation "tanner" or "tannery worker"	1.6 (0.6-4.0)	No	No
Garabrant & Wegman, 1984 ⁴⁰	US: Massachusetts	2	Leather workers: female	2.80 (0.31-10.11)	No	No
Garabrant & Wegman, 1984 ⁴⁰	US: Massachusetts	16	Leather workers: male	1.69 (0.97-2.74)	No	No
Gonzalez et al., 1991 ⁴¹	Spain: Catalonia	5	Leather workers; exposed to dust	1.82 (0.40-8.25)	No	No
Gonzalez et al., 1991 ⁴¹	Spain: Catalonia	41	Brick masons; exposed to dust	1.69 (0.82-3.46)	No	No
Huvinen & Pukkala, 2013 ⁴²	Finland	12	Ferrochromium and stainless steel production workers; chromite mine workers	0.80 (0.42-1.40)	No	No
Jakobsson et al., 1993 ⁴³	Sweden	13	Cement production; men employed ≥ 1 year, ≥ 15 years since start of employment	1.14 (0.61-1.94)	No	No
Jarvholm et al., 1982 ⁴⁴	Sweden	4	Steel polishing; men who had worked ≥ 5 years as polishers	9.76 (2.62-25.0)	No	No
Kneller et al., 1990 ⁴⁵	China: Shanghai	55	Leather products workers	1.50 (1.13-1.95)	No	No
Kneller et al., 1990 ⁴⁵	China: Shanghai	5	Leather tanning; tanners, feltmongers, and pelt dressers	0.94 (0.30-2.19)	No	No
Koh et al., 2013 ⁴⁶	Korea	14	Cement industry workers; high exposure group	2.18 (1.19-3.65)	No	No
Krstev et al., 2005 ⁴⁷	Poland: Warsaw	8	Leather workers: male; newly diagnosed cases, aged 21-79, 3/1/1994 to 4/30/1996.	5.10 (1.0-25.0)	No	No
Krstev et al., 2005 ⁴⁷	Poland: Warsaw	4	Leather workers: female; newly diagnosed cases, aged 21-79, 3/1/1994 to 4/30/1996.	3.10 (0.70-14.9)	No	No
Lipworth et al., 2011 ⁴⁸	US: California	26	Aircraft manufacturing workers; exposed to chromates	0.72 (0.47-1.05)	No	No
Mallin et al., 1989 ⁴⁹	US: Illinois	9	Bricklayers; white males, aged 35 to 74.	4.30 (1.18-15.6)	No	No

McDowall, 1984 ⁵⁰	UK: North Kent	4	Cement production-packing; employed in 1939 in occupation identified as cement manufacture.	3.21 (0.86-8.22)	No	No
McDowall, 1984 ⁵⁰	UK: North Kent	8	Cement production-maintenance; employed in 1939 in occupation identified as cement manufacture.	2.11 (0.91-4.16)	No	No
McDowall, 1984 ⁵⁰	UK: North Kent	9	Cement production-laborers; employed in 1939 in occupation identified as cement manufacture.	1.48 (0.67-2.81)	No	No
Mikoczy & Hagmar, 2005 ⁵¹	Sweden	13	Leather tanning; workers employed ≥ 1 year, 20 year latency period.	0.98 (0.52-1.68)	No	No
Minder & Beer-Porizek, 1992 ⁵²	Switzerland	52	Masons; men aged 30 years and over, 1979-1982.	1.42 (1.04-1.96)	No	No
Moulin et al., 1993a ⁵³	France	7	Ferrochromium and stainless steel production; workers employed ≥ 3 years in production workforce.	0.92 (0.37-1.90)	No	No
Moulin et al., 1995 ⁵⁴	France: plant 1	26	Stainless steel production; male workers employed on 1/1/1960 or hired before 5/31/1989	1.04 (0.68-1.52)	No	No
Moulin et al., 1995 ⁵⁴	France: plant 2	15	Stainless steel production; male workers employed on 1/1/1960 or before 12/31/1990	0.84 (0.47-1.38)	No	No
Parent et al., 1998	Canada: Montreal	11	Leather workers; employed ≥ 10 years.	1.0 (0.5-1.9)	No	No
Pukkala et al., 2009 ⁵⁵	Denmark	140	Bricklayers; males, 1961-2005	1.06 (0.89-1.25)	No	No
Pukkala et al., 2009 ⁵⁵	Finland	89	Bricklayers; males, 1961-2005	0.95 (0.76-1.17)	No	No
Pukkala et al., 2009 ⁵⁵	Norway	168	Bricklayers; males, 1961-2005	1.20 (1.03-1.40)	No	No
Pukkala et al., 2009 ⁵⁵	Scandinavia	2	Bricklayers; females, 1961-2005	1.56 (0.19-5.65)	No	No

Robinson et al., 1995 ⁵⁶	US	32	Brickmasons; white men, aged 20 and over.	2.08 (1.42-2.93)	No	No
Salg & Alterman, 2005 ⁵⁷	US	94	Bricklayers: white; male union members who died between 1986 and 1991	1.31 (1.06-1.60)	No	No
Salg & Alterman, 2005 ⁵⁷	US	8	Bricklayers: non-white; male union members who died between 1986 and 1991	1.17 (0.50-2.31)	No	No
Santibañez et al., 2012 ⁵⁸	Spain: Alicante	7	Leather workers; men who worked ≥ 1 year in the same occupation.	1.37 (0.40-4.66)	No	No
Santibañez et al., 2012 ⁵⁸	Spain: Alicante	29	Bricklayers and stonemasons; men who worked ≥ 1 year in the same occupation.	1.20 (0.65-2.22)	No	No
Sjödahl et al., 2007 ⁵⁹	Sweden	37	Construction workers; high exposure to cement dust.	1.5 (1.1-2.1)	No	No
Smailyte et al., 2004 ⁶⁰	Lithuania	6	Cement production; workers with cumulative exposure > 130.2 mg/m ³ cement dust	1.5 (0.6-3.0)	No	No
Stern et al., 2001 ⁶¹	US	110	Cement masons; members of Operative Plasterers' and Cement Finishers' International Association.	1.64 (1.35-1.98)	No	No
Sweeney et al., 1985 ⁶²	US	2	Leather tanning; white male and female retired fur dressers.	1.37 (0.15-4.95)	No	No
Walrath et al., 1987 ⁶³	US: New York	71	Leather workers: male.	1.83 (1.43-2.31)	No	No
Walrath et al., 1987 ⁶³	US: New York	14	Leather workers: female.	1.28 (0.70-2.15)	No	No
Weiderpass et al., 2003 ⁶⁴	Finland	unknown	All occupations: women; workers with medium to high levels of exposure to chromium.	0.50 (0.23-1.12)	No	No
Xu et al., 1996 ⁶⁵	China	6	Chrome plating; employed at plant ≥ 15 years.	2.1 (0.7-6.3)	No	No
Xu et al., 1996 ⁶⁵	China	4	Cement workers; employed at plant ≥ 15 years.	1.2 (0.3-4.3)	No	No

Abbreviations: CI, confidence interval; E, expected number of cases; O, observed number of cases; RR, relative risk estimate; SMR, standardized mortality ratio.

^aGatto presents data in figure form only. The terms “near 1.0”, “<1.0” or “>1.0” indicates that the relative risk estimate used by Gatto et al. (2010) could not be determined by us but is near 1.0, <1.0 or >1.0 based on its appearance in the figure.

^bThe relative risk in the figure presented by Gatto et al., (2010) appears to be the same as the relative risk used in this meta-analysis.

The studies listed under Cole and Rodu (2006) include only those identified as the authors as higher quality and controlled for socioeconomic status.

References for Supplemental Table 3

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