

**Supplemental Table 2. Studies excluded from the meta-analysis**

<b>Author(s)</b>	<b>Publication year</b>	<b>Reference</b>	<b>Occupation/exposure</b>	<b>Reason for exclusion</b>
Acquavella & Lee	1991	<i>J Occup Med</i> <b>33</b> (8):896-900	Metal components manufacturing	Refers to stainless steel, but Cr(VI) exposure is unclear.
Ahn et al.	2010	<i>J Korean Med Sci</i> <b>25</b> (12):1733-41	Foundry workers	Unclear Cr(VI) exposure.
Alderson et al.	1981	<i>Br J Ind Med</i> <b>38</b> (2):117-24	UK chromate producers	Overlap with more recent Davies et al., 1991.
Andersen et al.	1999	<i>Scand J Work Environ Health</i> <b>25 Suppl 2</b> :1-116	Bricklayers	Overlap with more recent Pukkala et al., 2009.
Aragones et al.	2002	<i>Occup Environ Med</i> <b>59</b> (5):329-37	Metal plating	Unclear Cr(VI) exposure.
Beaumont & Weiss	1980	<i>Am J Epidemiol</i> <b>112</b> (6):775-86	Welders, shipbuilders	No relative risk (RR) estimate for stomach cancer.
Becker et al.	1985	<i>Scand J Work Environ Health</i> <b>11</b> (2):75-82.	Arc welders	Overlap with more recent Becker, 1999.
Becker et al.	1991	<i>Br J Ind Med</i> <b>48</b> (10):675-83	Arc welders	Overlap with more recent Becker, 1999.
Bidstrup	1951	<i>Br J Ind Med</i> <b>8</b> (4):302-5	Chromate production workers	Overlap with more recent Davies et al., 1991.
Bidstrup & Case	1956	<i>Br J Ind Med</i> <b>13</b> (4):260-4	Chromate production workers	Overlap with more recent Davies et al., 1991.
Birk et al.	2006	<i>J Occup Environ Med</i> <b>48</b> (4):426-33	Chromate production workers	Overlap with Korallus et al., 1993, but follow-up only since conversion to process with lower Cr(VI) exposure.
Blair & Mason	1980	<i>Arch Environ Health</i> <b>35</b> (2):92-4	Metal polishers and metal platers	Unclear Cr(VI) exposure.
Boice et al.	1999	<i>Occup Environ Med</i> <b>56</b> (9):581-97	Aircraft workers	Overlap with more recent Lipworth et al., 2011.
Brinton et al.	1952	<i>Public Health Rep</i> <b>67</b> (9):835-47	Chromate workers	No RR estimate for stomach cancer.
Cammarano et al.	1984	<i>Scand J Work Environ Health</i> <b>10</b> (4):259-61	Power plant workers	Unclear Cr(VI) exposure.
Cammarano et al.	1986	<i>Scand J Work Environ Health</i> <b>12</b> (6):631-2	Power plant workers	Unclear Cr(VI) exposure.

Chow et al.	1994	<i>Am J Ind Med</i> <b>26</b> (4):511-20	All Sweden	Other Swedish studies give more specific exposure categories.
Cocco et al.	1994	<i>Cancer Causes Control</i> <b>5</b> (3):241-8	Shoe and leather workers	Unclear Cr(VI) exposure.
Cocco et al.	1998	<i>J Occup Environ Med</i> <b>40</b> (10):855-61	US death certificate study	Some overlap with Robinson et al., 1995, but includes only cancer of the gastric cardia.
Cocco et al.	1999	<i>Occup Environ Med</i> <b>56</b> (11):781-7	Concrete workers	Gives percentage of cases and controls for concrete workers but no RR estimate.
Coggon et al.	1990	<i>Br J Ind Med</i> <b>47</b> (5):298-301	Iron and steel workers	Unclear Cr(VI) exposure.
Cornell	1984	<i>IARC Sci Publ</i> (53):65-71	Stainless steel workers	No RR estimate for stomach cancer.
Cox et al.	1981	<i>Br J Ind Med</i> <b>38</b> (3):235-9	Nickel alloy plant	No RR estimate for stomach cancer.
Dalager et al.	1980	<i>J Occup Med</i> <b>22</b> (1):25-9	Zinc chromate paints	All digestive organs combined.
Danielsen et al.	1993	<i>Br J Ind Med</i> <b>50</b> (12):1097-103	Mild steel welders	Unclear Cr(VI) exposure.
Decoufle	1979	<i>Arch Environ Health</i> <b>34</b> (1):33-7	Leather workers	No RR estimate for stomach cancer.
Decoufle & Walrath	1983	<i>Am J Ind Med</i> <b>4</b> (4):523-32	US union shoemakers	Unclear Cr(VI) exposure.
Dunn & Weir	1968	<i>Arch Environ Health</i> <b>17</b> (1):71-6	Several occupations (unspecified)	No RR estimate for stomach cancer. Special emphasis on lung cancer and asbestos.
Ekstrom et al.	1999	<i>Cancer Res</i> <b>59</b> (23):5932-7	All Sweden	More specific exposure categories are given in other Swedish studies.
Engel et al.	2002	<i>Am J Ind Med</i> <b>42</b> (1):11-22	Leather workers	No odds ratio (OR) calculated for leather work. Other job categories are too broad.
Enterline	1974	<i>J Occup Med</i> <b>16</b> (8):523-6	Chromate workers	No RR estimate for stomach cancer.
Finkelstein & Wilk	1990	<i>Am J Ind Med</i> <b>17</b> (4):483-91	Steel manufacturer	All digestive organs combined.
Finkelstein et al.	1991	<i>Am J Ind Med</i> <b>19</b> (2):183-94	Steel manufacturer	Cr(VI) exposure documented in the melting area but with a wide range.
Firth et al.	1996	<i>Int J Epidemiol</i> <b>25</b> (1):14-21	Multiple occupations	No RR estimate for stomach cancer.

Firth et al.	1999	<i>Occup Environ Med</i> <b>56</b> (2):134-8	Foundry and other workers	No RR estimate for stomach cancer.
Frentzel-Beyme	1983	<i>J Cancer Res Clin Oncol</i> <b>105</b> (2):183-8	Chromate pigment workers	No RR estimate for stomach cancer.
Fu et al.	1996	<i>Occup Environ Med</i> <b>53</b> (6):394-8	Shoe manufacturing	Unclear Cr(VI) exposure.
Gibb et al.	2000	<i>Am J Ind Med</i> <b>38</b> (2):115-26	Chromium chemical production	No RR estimate for stomach cancer.
Guay & Siemiatycki	1987	<i>Am J Ind Med</i> <b>12</b> (2):181-93	Fur industry	No stomach cancer RR given for dressers (tanners). No cases in all fur workers.
Guberan et al.	1989	<i>Br J Ind Med</i> <b>46</b> (1):16-23	Painters and electricians	Only has RR estimates for painters and electricians. Unclear Cr(VI) exposure.
Haguenoer et al.	1990	<i>Br J Ind Med</i> <b>47</b> (6):380-3	Chromate pigment workers	Overlap with more recent Deschamps et al., 1995.
Hansen et al.	1996	<i>Am J Ind Med</i> <b>30</b> (4):373-82	Stainless steel welders	All digestive organs combined.
Hayes et al.	1979	<i>Int J Epidemiol</i> <b>8</b> (4):365-74	Chromate production plant	All digestive organs combined.
Hughes et al.	1987	<i>Br J Ind Med</i> <b>44</b> (3):161-74	Asbestos cement manufacturing	Cr(VI) exposure unclear. Asbestos exposure emphasized.
laia et al.	2002	<i>Med Lav</i> <b>93</b> (2):95-107	Leather tanners	Overlap with more recent laia et al., 2006.
laia et al.	2006	<i>Am J Ind Med</i> <b>49</b> (6):452-9	Leather tanners	Overlap with Costantini et al., 1989, which has more cases.
Itoh et al.	1996	<i>J UOEH</i> <b>18</b> (1):7-18	Chrome platers	Overlap with more recent Hara et al., 2010.
Jakobsson et al.	1990	<i>Arch Occup Environ Health</i> <b>62</b> (4):337-40	Cement workers	Combined stomach and esophageal cancer.
Jeong et al.	2011	<i>Am J Ind Med</i> <b>54</b> (9):719-25	Shipbuilding	Unclear Cr(VI) exposure.
Ji & Hemminki	2006	<i>Eur J Cancer Prev</i> <b>15</b> (5):391-7	All Sweden	Other Swedish studies have more specific exposure categories
Kang et al.	1997	<i>Am J Ind Med</i> <b>31</b> (6):713-8	Asbestos related occupations	Unclear Cr(VI) exposure.
Keller & Howe	1993	<i>Am J Ind Med</i> <b>24</b> (2):223-30	Cement workers	Unclear Cr(VI) exposure. Unusual control selection - controls may include lung cancer cases.

Kjuus et al.	1986	<i>Br J Ind Med</i> <b>43</b> (4):227-36	Ferrosilicon and ferromanganese plants	No specific chromium data; exposure to polyaromatic hydrocarbons and asbestos emphasized.
Knutsson et al.	2000	<i>Occup Environ Med</i> <b>57</b> (4):264-7	All Sweden	Other Swedish studies have more specific exposure categories.
Kraus et al.	1957	<i>Am J Public Health Nations Health</i> <b>47</b> (8):961-70	Various occupations	Only very broad exposures, i.e. iron and grain dust. Unclear Cr(VI) exposure.
Kusiak et al.	1993	<i>Br J Ind Med</i> <b>50</b> (2):117-26	Uranium miners	Exposure based on Cr(VI) levels in rocks.
Langård & Norseth	1975	<i>Br J Ind Med</i> <b>32</b> (1):62-5	Chromate pigment workers	Only 133 workers in cohort, no stomach cancer cases.
Langård & Norseth	1979	<i>Ark hig rada toksikol</i> <b>30</b> :301-4	Chromate pigment workers	All gastrointestinal cancers combined.
Langård et al.	1980	<i>Br J Ind Med</i> <b>37</b> (2):114-20	Ferrosilicon and ferrochromium workers	Overlap with more recent Langård et al., 1990.
Langård & Vigander	1983	<i>Br J Ind Med</i> <b>40</b> (1):71-4	Chromate pigment workers	Only lung cancer. Overlap with Langård & Norseth, 1975 and 1979.
Lloyd et al.	1970	<i>J Occup Med</i> <b>12</b> (5):151-7	Steelworkers	All malignant neoplasms combined.
Luippold et al.	2005	<i>J Occup Environ Med</i> <b>47</b> (4):381-5.	Chromate production workers	Low-level Cr(VI) exposure only. RR estimate for cancers of all digestive organs combined.
Machle & Gregorius	1948	<i>Public Health Rep</i> <b>63</b> (35):1114-27	Chromate production	All digestive tract cancers combined.
McMillan & Pethybridge	1983	<i>J Soc Occup Med</i> <b>33</b> (2):75-84	Shipyard welders	Unclear Cr(VI) exposure.
Melkild et al.	1989	<i>Scand J Work Environ Health</i> <b>15</b> (6):387-94	Welders and shipyard workers	No stainless steel until 1973; follow-up ended in 1977.
Merlo et al.	1989	<i>J UOEH</i> <b>11 Suppl</b> :302-15	Welders	Unclear Cr(VI) exposure.
Mikoczy et al.	1994	<i>Occup Environ Med</i> <b>51</b> (8):530-5	Leather tanners	Overlap with more recent Mikoczy & Hagmar, 2005.
Mikoczy et al.	1996	<i>Occup Environ Med</i> <b>53</b> (7):463-7	Leather tanners	Overlap with more recent Mikoczy & Hagmar, 2005.
Okubo & Tsuchiya	1977	<i>Keio J Med</i> <b>26</b> (3):171-7	Chrome platers	Overlap with more recent Hara et al., 2010.
Okubo et al.	1985	<i>Jpn J Clin Oncol</i> <b>15 Suppl</b> 1:243-53	Chrome platers	Overlap with more recent Hara et al., 2010.

Pang et al.	1996	<i>Occup Environ Med</i> <b>53</b> (10):714-7	Nickel plating	Chromium platers were excluded.
Park et al.	2005	<i>Am J Ind Med</i> <b>48</b> (3):194-204	Stainless steel production	Overlap with more recent Ahn et al., 2006.
Pippard & Acheson	1985b	<i>Scand J Work Environ Health</i> <b>11</b> (4):249-55	Shoe and boot makers	Leather tanning unclear.
Polednak	1981	<i>Arch Environ Health</i> <b>36</b> (5):235-42	Welders	All digestive cancers combined.
Puntoni et al.	1979	<i>Ann N Y Acad Sci</i> <b>330</b> :353-77	Shipyards workers	Gives stomach cancer SMRs for several shipyard jobs, but Cr(VI) exposure is unclear.
Puntoni et al.	1984	<i>Med Lav</i> <b>75</b> (6):471-7	Leather tanners	Overlap with more recent Montanaro et al., 1997.
Puntoni et al.	2001	<i>Am J Ind Med</i> <b>40</b> (4):363-70	Shipyards workers	Stomach cancer data for all shipyard workers. Unclear Cr(VI) exposure.
Raffn et al.	1989	<i>Br J Ind Med</i> <b>46</b> (2):90-6	Asbestos cement industry	Asbestos exposure only.
Rafnsson & Johannesdottir	1986	<i>Br J Ind Med</i> <b>43</b> (8):522-5	Masons	Overlap with more recent Rafnsson et al. 1997.
Redmond et al.	1975	<i>J Occup Med</i> <b>17</b> (1):40-3	Steelworkers	Stomach and duodenal cancers combined.
Redmond et al.	1979	<i>J Environ Pathol Toxicol</i> <b>2</b> (5):75-96	Steelworkers	Unclear Cr(VI) exposure.
Robinson et al.	1995	<i>Am J Ind Med</i> <b>28</b> (1):49-70	Concrete/terrazzo finishers	Unclear exposure in this subgroup. Data on bricklayers are included in this meta-analysis.
Rockette & Redmond	1976	<i>J Occup Med</i> <b>18</b> (8):541-5	Steelworkers and masons	All digestive organs combined.
Rosenman & Stanbury	1996	<i>Am J Ind Med</i> <b>29</b> (5):491-500	Chromium smelter workers: black workers	No cases. Data for white male workers are included in this meta-analysis.
Royle	1975a	<i>Environ Res</i> <b>10</b> (1):39-53	Chrome platers	Overlap with more recent Sorahan & Harrington 2000
Royle	1975b	<i>Environ Res</i> <b>10</b> (1):141-163	Chrome platers	Overlap with more recent Sorahan & Harrington 2000
Sheffet et al.	1982	<i>Arch Environ Health</i> <b>37</b> (1):44-52	Chromate pigment workers	Overlap with more recent Hayes et al. 1989.
Siemiatycki et al.	1982	<i>Teratog Carcinog Mutagen</i> <b>2</b> (2):169-77	Fur and leather workers	No RR estimate for stomach cancer.

Siemiatycki et al.	1986	<i>Am J Epidemiol</i> <b>123</b> (2):235-49	Population based case-control study	Only gives RR for broad categories of dust exposure.
Siemiatycki et al.	1989	<i>Am J Ind Med</i> <b>16</b> (5):547-67	Cement workers	No RR estimate for stomach cancer.
Silverstein et al.	1981	<i>Scand J Work Environ Health</i> <b>7 Suppl 4</b> :156-65	Metal plating: females	No cases. Data on male platers are included in this meta-analysis.
Silverstein et al.	1986	<i>Am J Ind Med</i> <b>10</b> (1):27-43	Iron foundry	Unclear Cr(VI) exposure.
Simpson et al.	1999	<i>Am J Ind Med</i> <b>36</b> (1):172-85	Various occupations	Unclear Cr(VI) exposure.
Sjögren	1980	<i>Scand J Work Environ Health</i> <b>6</b> (3):197-200	Welders	No RR estimate for stomach cancer.
Sjögren et al.	1987	<i>Scand J Work Environ Health</i> <b>13</b> (3):247-51	Welders	Only gives stomach cancer RR in a low Cr(VI) exposure group.
Sorahan & Cooke	1989	<i>Br J Ind Med</i> <b>46</b> (2):74-81	Foundry workers	Unclear Cr(VI) exposure.
Sorahan et al.	1994	<i>Occup Environ Med</i> <b>51</b> (5):316-22	Steel foundry workers	Unclear Cr(VI) exposure.
Stern et al.	1987	<i>Scand J Work Environ Health</i> <b>13</b> (2):108-17	Leather tanners	Overlap with more recent Stern 2003, all digestive organ cancers combined.
Stern	2003	<i>Am J Ind Med</i> <b>44</b> (2):197-206	Leather tanners	All digestive organ cancers combined.
Svensson et al.	1989	<i>Am J Ind Med</i> <b>15</b> (1):51-9	Cement workers	Overlap with more recent Jakobsson et al., 1997.
Takahashi & Okubo	1990	<i>Arch Environ Health</i> <b>45</b> (2):107-11	Chrome platers	Overlap with more recent Hara et al., 2010
Taylor	1966	<i>Am J Public Health Nations Health</i> <b>56</b> (2):218-29	Chromate workers	Only respiratory and all other cancers. Overlap with more recent Enterline 1974.
Tola et al.	1988	<i>Br J Ind Med</i> <b>45</b> (4):209-18	Platers and welders in shipyards and machine shops	States that welders had no Cr exposure. Platers' exposure unclear.
Tsuda et al.	2001	<i>Am J Ind Med</i> <b>39</b> (1):52-7	Brick and quarry work	Unclear Cr(VI) exposure.
Urbaneja-Arrue et al.	1995	<i>Gac Sanit</i> <b>9</b> (50):287-94	Steel workers	Unclear Cr(VI) exposure.
Versluys	1949	<i>Br J Cancer</i> <b>3</b> (2):161-85	Shoemakers and masons	Unclear Cr(VI) exposure. Mortality given only for 1931-1935.

Vestbo et al.	1991	<i>Br J Ind Med</i> <b>48</b> (12):803-7	Cement workers	No exposed cases.
Ward et al.	1994	<i>J Occup Med</i> <b>36</b> (11):1222-7	All deaths	Overlap with more recent Cocco et al., 1998. Some overlap with more recent Robinson et al., 1995. Includes only cancer of the gastric cardia.
Wright et al.	1988	<i>Am J Epidemiol</i> <b>128</b> (1):64-73	Dusty jobs	Unclear Cr(VI) exposure. RRs only for broad categories of dust exposure.
Wu et al.	2013	<i>Am J Ind Med</i> <b>56</b> (1):701-8	Shipbreaking workers	Cr(VI) exposure unclear for occupations listed.
Xu et al.	1996b	<i>Am J Ind Med</i> <b>30</b> (1):1-6	Steel and iron workers	Overlap with Xu et al., 1996a, which provides ORs rather than PMRs.

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