



Erratum

Occupational exposure to asbestos and mortality among asbestos removal workers: a Poisson regression analysis

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Owing to an error during typesetting, there were some mistakes introduced into the layouts of Tables 2 and 3 in the above paper when first published in the *British Journal of Cancer* in September 2008. The presentation of the tables as such may have

led to misinterpretation of data; indeed, some data were presented incorrectly in Table 3.

The tables are now reproduced, as the author intended, on the following pages.

The publishers would like to apologise for these errors.



Table 2 Standardised mortality ratios (SMR) for all asbestos removal workers in the survey and for those included in the analysis (1971–2005)

| | All rer | noval workers | Analysed workers | | |
|---|---------|--|------------------|---|--|
| Cause of death | Deaths | SMR (95% CI) | Deaths | SMR (95% CI) | |
| All causes | 3165 | 122.9** | 985 | 111.3** | |
| All MN | 1274 | (118.7 – 127.3) 173.1** (163.7 – 182.9) | 384 | (104.4-118.4) 169.2** (152.7-187.0) | |
| MN of lip, oral cavity and pharynx | 19 | 94.0 (56.6–146.9) | 6 | 83.7 (30.7–182.2) | |
| MN of oesophagus | 42 | 88.2 (63.5 – 119.2) | 16 | 104.2 (59.6–169.2) | |
| MN of stomach | 49 | 133.7 (98.9–176.8) | 18 | 176.4* (104.5–278.8) | |
| MN of colon | 62 | 127.9 (98.1 – 163.9) | 17 | (101.5 276.6) 119.2 (69.4–190.9) | |
| MN of rectum | 43 | 169.0** (122.3–227.6) | 15 | 207.1* (115.9–341.5) | |
| MN of liver (primary) | 20 | 126.6 (77.3–195.5) | 9 | 167.8 (76.7–318.6) | |
| MN of larynx | 17 | 212.3** (123.6–339.8) | 8 | 322.9** (139.4–636.1) | |
| MN trachea, bronchus and lung | 393 | 200.5** (181.2–221.4) | 115 | 215.6** (178.0-258.7) | |
| MN of peritoneum | 38 | 4568.9** (3233.2–6271.2) | 12 | 4367.8** (2257.0-7629.8) | |
| MN of pleura | 35 | (3233.2=6271.2) 149.3** (800.5=1598.4) | 10 | 1332.8** (639.1-2451.1) | |
| Mesothelioma ^a | 69 | 808.2** (628.8 – 1022.8) | 23 | 808.2** (512.3-1212.7) | |
| MN of ovary | 0 | (0.0-533.0) | 0 | (0.0-7092.9) | |
| MN of kidney | 29 | 160.1* (107.2–229.9) | 13 | 229.0* (121.9-391.6) | |
| MN of bladder | 18 | 94.2 (55.8 – I 48.8) | 3 | 61.6 (12.7–180.2) | |
| MN of lymphatic and haematopoietic tissue | 80 | 103.9 (82.4–129.3) | 24 | 86.2 (55.2–128.2) | |
| Circulatory disease | 981 | 14.0** (107.0- 21.4) | 258 | 102.0 (89.9–115.2) | |
| Ischaemic heart disease | 665 | 13.3** (104.9–122.3) | 171 | 102.4 (87.7-119.0) | |
| Cerebrovascular disease | 147 | 125.0* (105.6–146.9) | 41 | 118.3 (84.9–160.5) | |
| Respiratory disease | 222 | 128.0** (111.7–146.0) | 44 | 88.8 (64.5-119.2) | |
| Asbestosis ^b | 22 | 5753.4** (3605.6–8710.7) | 3 | 3849.6** (794.3-11249.8) | |

Cl = confidence interval. *Significant at $P \le 0.05$; **significant at $P \le 0.01$. alCD-10, after 2001. bAsbestosis determined by underlying cause of death.

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 Table 3
 Relative risks (RRs) of mortality for stripping/removal workers, using Poisson regression analyses

| | All causes | | | All MN | | | MN trachea, bronchus and lung | | | |
|--|------------|---------------------------------------|----------------|-----------|--|----------------|-------------------------------|---|-----------------|--|
| | Cases | RR ^a (95% CI) | LR test (d.f.) | Cases | RR ^a (95% CI) | LR test (d.f.) | Cases | RR ^a (95% CI) | LR test (d.f.) | |
| Main stripping method | | | 4.03 (2) | | | 2.35 (2) | | | 2.71 (2) | |
| Wet ^c | 397 | 1.0 | | 141 | 1.0 | | 48 | 1.0 | | |
| Dry | 409 | 1.1 (0.9-1.2) | | 169 | 1.2 (0.9-1.5) | | 39 | 0.8 (0.5 – 1.2) | | |
| Both | 48 | 0.8 (0.6-1.1) | | 21 | 1.0 (0.6-1.6) | | 13 | 1.3 (0.7-2.7) | | |
| Main respirator type | | | 2.82 (6) | | | 10.20 (6) | | | 6.28 (6) | |
| Positive pressure mask ^c | 664 | 1.0 | | 245 | 1.0 | | 70 | 1.0 | | |
| Airstream helmet | 4 | — — — — — — — — — — — — — — — — — — — | | I | _ | | I | _ | | |
| Full face unpowered mask | | 1.0 (0.8 – 1.2) | | 55 | 1.1 (0.8-1.5) | | 16 | 1.1 (0.6-1.8) | | |
| Half face mask | 18 | 0.8 (0.5 – 1.3) | | 4 | _ | | I | _ | | |
| Minimal | 14 | 0.7 (0.4–1.3) | | 5 | _ | | 2 | _ | | |
| None | 2 | | | 2 | | | - 1 | — 17 (00 3F) | | |
| Mixed | 51 | 1.1 (0.8–1.5) | 1407 (4)** | 25 | 1.4 (0.9-2.2) | 1.00 (4) | 11 | 1.7 (0.9 – 3.5) | 0.07 (4) | |
| Weekly hours spent stripping | 402 | 1.0 | 14.97 (4)** | าาา | 1.0 | 1.00 (4) | // | 1.0 | 0.87 (4) | |
| <10° | 483 74 | 1.0 | | 222 32 | 1.0 | | 66 8 | 1.0 | | |
| 20- | | 1.0 (0.8 – 1.2) | | 32 48 | 1.0 (0.7 – 1.5) | | 12 | 0.9 (0.4–1.8) | | |
| 30- | 125 124 | 1.1 (0.9 – 1.4) 1.3 (1.0 – 1.5)* | | 33 | 1.1 (0.8 – 1.5) 0.9 (0.6 – 1.3) | | 9 | 1.0 (0.5 – 1.8) 0.9 (0.4 – 1.7) | | |
| 40+ | 163 | ' | | 33 44 | ' | | 15 | ` / | | |
| | 163 | 1.4 (1.2–1.7)** | 112.42 (2)** | 44 | 1.0 (0.7–1.4) | 41.07./2** | 15 | 1.2 (0.7-2.1) | (7 ((()) ** | |
| Smoking status Never smokers ^c | 110 | 1.0 | 112.42 (2)*** | 38 | 1.0 | 41.07 (2)** | I | 1.0 | 67.66 (2)** | |
| Current smokers | 118 | | | | | | | | | |
| | 622 | 2.5 (2.0-3.0)** 1.5 (1.2-1.9)** | | 216 | 2.8 (1.9-3.9)** | | 86 | 43.0 (6.0 – 305.8)** | | |
| Former smokers | 225 | 1.5 (1.2-1.9)*** | 14.80 (4)** | 125 | 2.2 (1.5-3.1)** | 12.41.74)** | 26 | 16.0 (2.2–118.4)** | 2.22 (4) | |
| Age at first exposure (years) | 184 | 1.0 | 14.60 (4)*** | 91 | 1.0 | 13.41 (4)** | 21 | 1.0 | 3.22 (4) | |
| <20° 20– | 278 | 1.1 (0.9 – 1.3) | | 81 | 0.9 (0.7 – 1.2) | | 18 | 1.0 (0.5 – 1.8) | | |
| 30- | 193 | 0.9 (0.8–1.1) | | 70 | 0.8 (0.6-1.1) | | 23 | 1.2 (0.7–2.1) | | |
| 40- | 211 | 1.1 (0.9 – 1.3) | | 84 | 0.7 (0.5 – 1.1) | | 33 | 1.2 (0.7–2.1) | | |
| 50+ | 119 | 0.7 (0.6–0.9)** | | 58 | 0.6 (0.4-0.8)** | | 20 | 0.7 (0.4–1.3) | | |
| Length of time in the survey | 117 | 0.7 (0.0-0.7) | 0.01 (1) | 50 | 0.0 (0.4-0.0) | 14.81 (1)** | 20 | 0.7 (0.4-1.5) | 5.13 (1)* | |
| Short term ^c | 419 | 1.0 | 0.01 (1) | 116 | 1.0 | 1 1.01 (1) | 33 | 1.0 | 3.13 (1) | |
| Long term | 599 | 1.0 (0.9 – 1.1) | | 268 | 1.5 (1.2-1.9)** | | 82 | 1.6 (1.1 – 2.4)* | | |
| Length of exposure (years) | 3// | 1.0 (0.7 1.1) | 16.29 (4)** | 200 | 1.5 (1.2 1.7) | 18.61 (4)** | 02 | 1.0 (1.1 2.1) | 6.88 (4) | |
| <10° | 553 | 1.0 | 10.27 (1) | 166 | 1.0 | 10.01 (1) | 49 | 1.0 | 0.00 (1) | |
| 10- | 161 | 1.0 (0.8-1.2) | | 60 | 1.1 (0.8–1.5) | | 26 | 1.6 (1.0-2.5) | | |
| 20- | 88 | 0.8 (0.7 – 1.0) | | 45 | 1.1 (0.8 – 1.5) | | 11 | 0.8 (0.4–1.6) | | |
| 30- | 94 | 1.0 (0.8 – 1.2) | | 61 | 1.4 (1.1 – 1.9)* | | 14 | 1.0 (0.5 – 1.8) | | |
| 40+ | 89 | 1.5 (1.2-2.0)** | | 52 | 2.1 (1.5-2.9)** | | 15 | 1.7 (0.9 – 3.2) | | |
| Time of first exposure | | . (, | 0.00 (1) | | (' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' | 4.02 (1)* | | (, , , , , , , , , , , , , , , , , , , | 1.43 (1) | |
| Pre-ALR ^c | 430 | 1.0 | | 217 | 1.0 | | 66 | 1.0 | | |
| Post-ALR | 555 | 1.0 (0.9-1.1) | | 167 | 0.8 (0.7-1.0)* | | 49 | 0.8 (0.5 – 1.2) | | |
| | | , | ь | | , | | | , | | |
| | | Mesothelioma ^b | | | Circulatory disease Cases RR ^a (95% CI) LR test (d.f.) | | | Ischaemic heart disease | | |
| | Cases | RR ^a (95% CI) | LR test (d.f.) | Cases | RR ^a (95% CI) | LR test (d.f.) | Cases | RR ^a (95% CI) | LR test (d.f.) | |
| Main stripping method | | | 3.25 (2) | | | 6.81 (2)* | | | 8.61 (2)* | |
| Wet ^c | 12 | 1.0 | | 109 | 1.0 | | 77 | 1.0 | | |
| Dry | 10 | 0.9 (0.4-2.1) | | 107 | 1.0 (0.7-1.3) | | 66 | 0.9 (0.6-1.2) | | |
| Both | 0 | _ | | 7 | 0.4 (0.2-0.9)* | | 3 | _ | | |
| Main respirator type | | | 10.14 (6) | | | 1.54 (6) | | | 2.24 (6) | |
| Positive pressure mask ^c | 20 | 1.0 | | 172 | 1.0 | | 110 | 1.0 | | |
| Airstream helmet | 0 | _ | | - 1 | _ | | - 1 | _ | | |
| Full face unpowered mask | | _ | | 34 | 1.0 (0.7-1.4) | | 24 | 1.1 (0.7 – 1.7) | | |
| Half face mask | 0 | _ | | 7 | 1.1 (0.5-2.5) | | 5 | _ | | |
| Minimal | 0 | _ | | 4 | _ | | 2 | _ | | |
| None | | _ | | 0 | _ | | 0 | _ | | |
| Mixed | 1 | _ | | 12 | 1.0 (0.5 - 1.7) | | 9 | 1.2(0.6-2.3) | | |
| Weekly hours spent stripping | | | 2.29 (1) | | , | 12.34 (4)* | | * | 11.42 (4)* | |
| <10° | 17 | 1.0 | | 133 | 1.0 | | 86 | 1.0 | | |
| 10— | 6 | 0.5 (0.2-1.3) | | 16 | 0.8 (0.5 - 1.4) | | 12 | 1.0 (0.5 – 1.8) | | |
| 20- | _ | | | 28 | 1.1 (0.7–1.6) | | 16 | 0.9 (0.6-1.6) | | |
| 30- | _ | | | 32 | 1.4 (0.9-2.1) | | 24 | 1.6 (1.0-2.6)* | | |
| 40+ | _ | | | 47 | 1.7 (1.2-2.4)** | | 32 | 1.9 (1.2-2.8)** | | |
| Smoking status | | | 2.27 (2) | | | 33.41 (2)** | | | 35.14 (2)** | |
| Never smokers ^c | 5 | 1.0 | | 38 | 1.0 | | 19 | 1.0 | | |
| Current smokers | 7 | 0.7 (0.2-2.3) | | 161 | 2.1 (1.4-2.9)** | | 114 | 2.9 (1.8-4.7)** | | |
| Former smokers | 11 | 1.5 (0.5-4.4) | | 53 | 0.9 (0.6-1.4) | | 34 | 1.2 (0.7-2.1) | | |
| | | | | | | | | | | |

Table 3 (Continued)

| Age at first exposure (years) < 20° | Cases | | | | | | | | |
|-------------------------------------|-------------------------|--------------------------|----------------|---------|--------------------------|----------------|-------|--------------------------|----------------|
| | | RR ^a (95% CI) | LR test (d.f.) | Cases | RR ^a (95% CI) | LR test (d.f.) | Cases | RR ^a (95% CI) | LR test (d.f.) |
| <20° | | | 22.12 (1)** | | | 12.38 (4)* | | | 12.71 (4)* |
| | 14 | 1.0 | | 44 | 1.0 | . , | 33 | 1.0 | . , |
| 20- | 9 | 0.1 (0.1-0.3)** | | 41 | 0.8 (0.5-1.2) | | 19 | 0.5 (0.3-0.9)* | |
| 30- | _ | | | 51 | 1.0 (0.7-1.6) | | 34 | 0.9 (0.6-1.5) | |
| 40— | _ | | | 78 | 1.5 (1.0-2.2)* | | 54 | 1.3 (0.9-2.1) | |
| 50+ | _ | | | 44 | 0.9 (0.6-1.4) | | 31 | 0.9 (0.5 – 1.5) | |
| Length of time in the survey | | | 8.23 (1)** | | | 0.00 (1) | | | 0.60 (1) |
| Short term ^c | 3 | 1.0 | | 102 | 1.0 | | 72 | 1.0 | |
| Long term | 20 | 4.5 (1.3-16.0)* | | 156 | 1.0 (0.8-1.3) | | 99 | 0.9 (0.6-1.2) | |
| Length of exposure (years) | | | 18.59 (1)** | 1.41 | | 7.19 (4) | 00 | | 10.39 (4)* |
| < 10 ^c | _ | | | 141 | 1.0 | | 92 | 1.0 | |
| 10- | | | | 48 | 1.0 (0.7 – 1.4) | | 36 | 1.2 (0.8 – 1.7) | |
| 20- | 9 ^d | 1.0 | | 27 | 0.8 (0.5 – 1.2) | | 14 | 0.6 (0.3 – 1.0) | |
| 30- | 14 | 7.3 (2.5-21.6)** | | 20 | 0.6 (0.4–0.9)* | | 13 | 0.6 (0.3 – 1.0)* | |
| 40+ Ti | | | 12.15 (1)** | 22 | 0.9 (0.6-1.5) | 0.47 (1) | 16 | 1.1 (0.6–1.9) | 0.04 (1) |
| Time of first exposure | 10 | 1.0 | 13.15 (1)** | 122 | 1.0 | 0.46 (1) | 0.1 | 1.0 | 0.84 (1) |
| Pre-ALR ^c | 19 | 1.0 | | 123 | 1.0 | | 81 | 1.0 | |
| Post-ALR | 4 | _ | | 135 | 1.1 (0.8–1.4) | | 90 | 1.2 (0.8 – 1.6) | |
| | Cerebrovascular disease | | | | Respiratory d | isease | | | |
| | Cases | RR ^a (95% CI) | LR test (d.f.) | Cases | RR ^a (95% CI) | LR test (d.f.) | | | |
| Main stripping method | | | 0.62 (2) | | | 2.46 (2) | | | |
| Wet ^c | 18 | 1.0 | | 23 | 1.0 | | | | |
| Dry | 14 | 0.8 (0.4-1.5) | | 13 | 0.6 (0.3-1.2) | | | | |
| Both | 2 | _ | | 4 | _ | | | | |
| Main respirator type | | | 7.12 (6) | | | 4.02 (6) | | | |
| Positive pressure mask ^c | 31 | 1.0 | | 33 | 1.0 | | | | |
| Airstream helmet | 0 | _ | | 0 | _ | | | | |
| Full face unpowered mask | 4 | _ | | 4 | _ | | | | |
| Half face mask | 0 | _ | | 0 | _ | | | | |
| Minimal | I | _ | | I | _ | | | | |
| None | 0 | _ | | 0 | _ | | | | |
| Mixed | 0 | _ | | 3 | _ | | | | |
| Weekly hours spent stripping | | | 0.68 (2) | | | 3.46 (3) | | | |
| < 10° | 21 | 1.0 | | 21 | 1.0 | | | | |
| 10- | 10 | 1.4 (0.6–2.9) | | 8 | 1.1 (0.5 – 2.5) | | | | |
| 30- | 10 | 1.2 (0.6-2.7) | | 7 | 2.0 (0.8-4.6) | | | | |
| 40+ | _ | | F 0 ((2) | 8 | 1.9 (0.9-4.1) | 1410 (2)** | | | |
| Smoking status | 12 | 1.0 | 5.96 (2) | 2 | 1.0 | 14.18 (2)** | | | |
| Never smokers ^c | 12 | 1.0 | | 2 | 1.0 | | | | |
| Current smokers | 22 | 0.9 (0.4–1.8) | | 30 | 7.4 (1.8 – 30.6)** | | | | |
| Former smokers | 6 | 0.3 (0.1 – 0.9)* | 2.04 (4) | 11 | 3.8 (0.8–17.2) | 4 DE /D) | | | |
| Age at first exposure (years) | , | 1.0 | 3.04 (4) | , | 1.0 | 4.35 (3) | | | |
| < 20° 20– | 6 8 | 1.1 (0.4–3.2) | | 6 12 | 1.7 (0.7–4.8) | | | | |
| 30- | 8 | 1.5 (0.5-4.7) | | 12 | 2.1 (0.8–5.3) | | | | |
| 40- | 12 | 2.2 (0.8–6.6) | | 14 | 1.0 (0.4–2.6) | | | | |
| 50+ | 7 | 1.3 (0.4–4.4) | | 14 | 1.0 (0.4-2.6) | | | | |
| Length of time in the survey | , | 1.5 (0.1-7.7) | 0.45 (1) | | | 0.46 (1) | | | |
| Short term ^c | 15 | 1.0 | 0.15 (1) | 20 | 1.0 | 0.10 (1) | | | |
| Long term | 26 | 1.2 (0.7–2.3) | | 24 | 0.8 (0.5 – 1.5) | | | | |
| Length of exposure (years) | 20 | (0., 2.3) | 0.94 (2) | ۷. | 5.0 (0.5 1.5) | 7.14 (3) | | | |
| <10° | 24 | 1.0 | 3 i (2) | 25 | 1.0 | (3) | | | |
| 10- | 6 | 0.8 (0.3–1.9) | | 6 | 0.4 (0.2-1.1) | | | | |
| 20- | H | 0.7 (0.3 – 1.5) | | _ | (0.2 1.11) | | | | |
| 30- | | (0.0 1.0) | | 6 | 1.1 (0.4-2.7) | | | | |
| 40+ | _ | | | 7 | 1.9 (0.8–4.4) | | | | |
| Time of first exposure | | | 1.16 (1) | • | . () | 0.01 (1) | | | |
| Pre-ALR ^c | 18 | 1.0 | 5 (.) | 22 | 1.0 | () | | | |
| Post-ALR | 23 | 1.4 (0.7-2.8) | | 22 | 1.0 (0.5 – 1.8) | | | | |

CI = confidence interval; d.f. = degrees of freedom; LR test = likelihood ratio test of goodness-of-fit. *significant at $P \le 0.05$; **significant at $P \le 0.01$. ^aRelative risk adjusted with Poisson regression for age, calendar period and sex. ^bICD-10, after 2001. ^cReference category. ^dCategories: <30, 30+.