Table S1: Extracted relative risk estimates from four publications with cumulative carbon black (CB) exposure estimates used in the primary meta-regression and subsequent sensitivity analysis.

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Study** | **Interval** | **Anzahl** | **cb\_lb** | **cb\_ub** | **cb\_mw** | **cases** | **rr** | **ci\_95\_low** | **ci\_95\_high** | **se\_log\_rr\_lung** | **log\_rr\_lung** |
| Carbon | 0 to 5 | 9000 | 0 | 5 | 2.5 | 10 | 1 | 1 | 1 | 0 | 0 |
| Black | >5 to 10 | 9000 | 5 | 10 | 7.5 | 10 | 1.07 | 0.44 | 2.59 | 0.5484694 | 0.0676587 |
| Germany | >10 to 20 | 9000 | 10 | 20 | 15 | 9 | 0.84 | 0.34 | 2.1 | 0.4489796 | -0.1743534 |
|  | >20 to 40 | 9000 | 20 | 40 | 30 | 12 | 0.7 | 0.29 | 1.7 | 0.3596939 | -0.356675 |
|  | >40 | 9000 | 40 | 1000 | 60 | 9 | 0.28 | 0.11 | 0.72 | 0.1556122 | -1.272966 |
| Carbon | <20 | 10635.0 | 0 | 20 | 10 | 16 | 1 | 1 | 1 | 0 | 0 |
| Black | 20 to 49 | 7614.8 | 20 | 49 | 35 | 11 | 0.78 | 0.36 | 1.69 | 0.3392857 | -0.2484614 |
| UK | 50 to 99 | 4551.7 | 50 | 99 | 75 | 17 | 1.85 | 0.93 | 3.68 | 0.7015306 | 0.6151857 |
|  | >=100 | 4748.4 | 100 | 1000 | 150 | 20 | 1.32 | 0.68 | 2.58 | 0.4846939 | 0.2776318 |
| Carbon | <12 | 49022 | 0 | 12 | 6 | 24 | 1 | 1 | 1 | 0 | 0 |
| Black | 12 to <34 | 49022 | 12 | 34 | 23 | 21 | 1.1 | 0.6 | 1.9 | 0.3316326 | 0.0953102 |
| USA | 34 to <72 | 49022 | 34 | 72 | 53 | 41 | 1.3 | 0.8 | 2.1 | 0.3316326 | 0.2623642 |
|  | >=72 | 49022 | 72 | 1000 | 80 | 98 | 1.4 | 0.9 | 2.3 | 0.3571429 | 0.3364722 |
| Carbon | <20 | 10635.0 | 0 | 20 | 10 | 39 | 1.00 | 1.00 | 1.00 | 0 | 0 |
| Black | 20 to 49 | 7614.8 | 20 | 49 | 35 | 12 | 0.89 | 0.46 | 1.72 |  |  |
| UK | 50 to 99 | 4551.7 | 50 | 99 | 75 | 6 | 0.61 | 0.25 | 1.48 |  |  |
| 20yrs lag | >=100 | 4748.4 | 100 | 1000 | 150 | 7 | 0.70 | 0.30 | 1.63 |  |  |
| Carbon | <20 | 10635.0 | 0 | 20 | 10 | 16 | 1.00 | 1.00 | 1.00 |  |  |
| Black | 20 to 49 | 7614.8 | 20 | 49 | 35 | 11 | 0.65 | 0.29 | 1.44 |  |  |
| UK, no lag | 50 to 99 | 4551.7 | 50 | 99 | 75 | 17 | 1.57 | 0.74 | 3.34 |  |  |
| other covariates | >=100 | 4748.4 | 100 | 1000 | 150 | 20 | 0.89 | 0.40 | 2.01 |  |  |
| Carbon | <20 | 10635.0 | 0 | 20 | 10 | 39 | 1.00 | 1.00 | 1.00 |  |  |
| Black | 20 to 49 | 7614.8 | 20 | 49 | 35 | 12 | 0.90 | 0.44 | 1.86 |  |  |
| UK, 20yrs lag | 50 to 99 | 4551.7 | 50 | 99 | 75 | 6 | 0.46 | 0.18 | 1.20 |  |  |
| Other covariates | >=100 | 4748.4 | 100 | 1000 | 150 | 7 | 0.48 | 0.18 | 1.28 |  |  |
| Carbon | <12 | 49022 | 0 | 12 | 6 | 24 | 1 | 1 | 1 | 0 | 0 |
| Black | 12 t0 <34 | 49022 | 12 | 34 | 23 | 21 | 1.2 | 0.7 | 2.1 |  |  |
| USA, 10 yrs lag | 34 to <72 | 49022 | 34 | 72 | 53 | 41 | 1.2 | 0.8 | 2.1 |  |  |
|  | >=72 | 49022 | 72 | 1000 | 80 | 98 | 1.5 | 0.9 | 2.3 |  |  |
| Carbon | <12 | 49022 | 0 | 12 | 6 | 24 | 1 | 1 | 1 | 0 | 0 |
| Black | 12 t0 <34 | 49022 | 12 | 34 | 23 | 21 | 1.0 | 0.6 | 1.8 |  |  |
| USA, 20 yrs lag | 34 to <72 | 49022 | 34 | 72 | 53 | 41 | 1.4 | 0.8 | 2.2 |  |  |
|  | >=72 | 49022 | 72 | 1000 | 80 | 98 | 1.4 | 0.9 | 2.2 |  |  |