

# Diesel Exhaust Exposure and the Risk of Lung Cancer—A Review of the Epidemiological Evidence

**Table S1.** Data points estimated for Figure 1 (cohort studies).

| Study        | Job title                | Exposure * level<br>( $\mu\text{g}/\text{m}^3$ ) | Exposure **<br>duration (Y) | Cumulative doses<br>( $\mu\text{g}/\text{m}^3\text{-Y}$ ) | RR   |
|--------------|--------------------------|--------------------------------------------------|-----------------------------|-----------------------------------------------------------|------|
| Garshick [1] | Engineer/Conductor       | 70                                               | 2.5                         | 175                                                       | 1.31 |
|              |                          |                                                  | 7.5                         | 525                                                       | 1.23 |
|              |                          |                                                  | 12.5                        | 875                                                       | 1.23 |
|              |                          |                                                  | 17.5                        | 1,225                                                     | 1.16 |
|              |                          |                                                  | 30                          | 2,100                                                     | 1.22 |
| Garshick [2] | Long-haul driver         | 70                                               | 20                          | 1,400                                                     | 1.4  |
|              | Pickup driver            | 70                                               | 20                          | 1,400                                                     | 2.21 |
|              | Dockworker               | 190                                              | 20                          | 3,800                                                     | 2.02 |
|              | Combination workers      | 190                                              | 20                          | 3,800                                                     | 2.34 |
| Rafnsson [3] | Truck driver             | 70                                               | 1.5                         | 105                                                       | 2.7  |
|              |                          |                                                  | 6                           | 420                                                       | 2.46 |
|              |                          |                                                  | 25                          | 1,750                                                     | 0.68 |
|              | Taxi driver              | 70                                               | 38                          | 2,450                                                     | 2.32 |
|              |                          |                                                  | 69                          | 42                                                        | 0.59 |
|              |                          |                                                  | 35                          | 2,450                                                     | 1.6  |
| Schenker [4] | Railway workers          | 70                                               | 15                          | 1,050                                                     | 0.83 |
|              |                          |                                                  | 25                          | 1,750                                                     | 0.84 |
|              |                          |                                                  | 35                          | 2,450                                                     | 0.91 |
| Wong [5]     | Heavy equipment operator | 260                                              | 2.5                         | 650                                                       | 0.45 |
|              |                          |                                                  | 7                           | 1,820                                                     | 0.75 |
|              |                          |                                                  | 12                          | 3,120                                                     | 1.08 |
|              |                          |                                                  | 17                          | 4,420                                                     | 1.02 |
|              |                          |                                                  | 30                          | 7,800                                                     | 1.07 |
| Paradis [6]  | Bus driver               | 70                                               | 15                          | 1,050                                                     | 1.01 |
|              |                          |                                                  | 35                          | 2,100                                                     | 0.85 |

Notes: \* Exposure levels estimated according to MEGA-JEM; \*\* Exposure information given by published studies.

**Table S2.** Data points estimated for Figure 2 (case-control studies).

| Study               | Job title                | Exposure * level<br>( $\mu\text{g}/\text{m}^3$ ) | Exposure **<br>duration (Y) | Cumulative doses<br>( $\mu\text{g}/\text{m}^3\text{-Y}$ ) | RR   |
|---------------------|--------------------------|--------------------------------------------------|-----------------------------|-----------------------------------------------------------|------|
| Boffetta [7]        | Truck driver             | 70                                               | 8                           | 560                                                       | 1.83 |
|                     |                          |                                                  | 23                          | 1,610                                                     | 0.94 |
|                     |                          |                                                  | 36                          | 2,520                                                     | 1.17 |
| Brüske-Hohlfeld [8] | Professional driver      | 70                                               | 1.5                         | 105                                                       | 1.69 |
|                     |                          |                                                  | 6.5                         | 455                                                       | 1.09 |
|                     |                          |                                                  | 15                          | 1,050                                                     | 2.02 |
|                     |                          |                                                  | 25                          | 1,750                                                     | 1.15 |
|                     |                          |                                                  | 35                          | 2,450                                                     | 1.51 |
| Damber [9]          | Driver                   | 70                                               | 11                          | 770                                                       | 1.0  |
|                     |                          |                                                  | 30                          | 2,100                                                     | 1.1  |
| Hayes [10]          | Truck driver             | 70                                               | 5                           | 350                                                       | 1.0  |
|                     |                          |                                                  | 25                          | 1,750                                                     | 1.5  |
|                     | Heavy equipment operator | 260                                              | 5                           | 1,300                                                     | 1.5  |
|                     |                          |                                                  | 25                          | 6,500                                                     | 2.1  |
|                     | Bus driver               | 70                                               | 5                           | 350                                                       | 1.1  |
|                     |                          |                                                  | 25                          | 1,750                                                     | 1.7  |
|                     | Taxi driver              | 70                                               | 5                           | 350                                                       | 2.0  |
|                     |                          |                                                  | 25                          | 1,750                                                     | 2.0  |
|                     | Other Driver             | 70                                               | 5                           | 350                                                       | 0.9  |
|                     |                          |                                                  | 25                          | 1,750                                                     | 0.6  |
| Steenland [11]      | Diesel truck driver      | 70                                               | 5                           | 900                                                       | 1.0  |
|                     |                          |                                                  | 25                          | 4,500                                                     | 2.1  |
|                     |                          |                                                  | 12                          | 840                                                       | 1.27 |
|                     | Gasoline truck driver    | 70                                               | 30                          | 2,100                                                     | 1.26 |
|                     |                          |                                                  | 37                          | 2,590                                                     | 1.89 |
|                     |                          |                                                  | 12                          | 840                                                       | 1.24 |
|                     | Both truck driver        | 70                                               | 30                          | 2,100                                                     | 1.1  |
|                     |                          |                                                  | 37                          | 2,590                                                     | 1.34 |
|                     |                          |                                                  | 12                          | 840                                                       | 1.24 |
|                     | Mechanics                | 180                                              | 30                          | 2,100                                                     | 1.15 |
|                     |                          |                                                  | 37                          | 2,590                                                     | 1.34 |
|                     |                          |                                                  | 12                          | 840                                                       | 1.24 |
| Swanson [12]        | Dock workers             | 190                                              | 30                          | 2,100                                                     | 1.15 |
|                     |                          |                                                  | 37                          | 2,590                                                     | 1.34 |
|                     |                          |                                                  | 12                          | 840                                                       | 1.24 |
|                     | Mechanics                | 180                                              | 30                          | 2,160                                                     | 1.69 |
|                     |                          |                                                  | 37                          | 5,400                                                     | 1.39 |
|                     |                          |                                                  | 37                          | 6,660                                                     | 1.09 |
| Silverman [13] **   | Mechanics                | 180                                              | 20                          | 3,800                                                     | 0.92 |
|                     |                          |                                                  | 5                           | 900                                                       | 1.3  |
|                     |                          |                                                  | 15                          | 2,700                                                     | 2.2  |
| Möhner [14] **      |                          |                                                  | 30                          | 5,400                                                     | 1.5  |
|                     |                          |                                                  |                             | 37.5                                                      | 0.74 |
|                     |                          |                                                  |                             | 304                                                       | 1.54 |
|                     |                          |                                                  |                             | 536                                                       | 2.83 |
|                     |                          |                                                  |                             | 1,279                                                     | 1.77 |
|                     |                          |                                                  |                             | 2,375                                                     | 1.04 |

Notes: \* Exposure levels estimated according to MEGA-JEM; \*\* Exposure information given by published studies.

## References

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