# S1 Table

Hazard ratios for lung cancer incidence according to history of pesticide exposure, and smoking status after excluding subjects with a follow-up period of equal or less than 3 years

| Model 1 | Overall (n=7,289) | Men (n=2,627) | Women (n=4,662) |
|---------|------------------|---------------|-----------------|
|         | Cases (%) | HR (95% C.I.) | p-value | Cases (%) | HR (95% C.I.) | p-value | Cases (%) | HR (95% C.I.) | p-value |
| **Occupational pesticide use** | | | | | | | | | |
| No | 24 (0.7) | 1.000 (reference) | | 11 (1.2) | 1.000 (reference) | | 13 (0.5) | 1.000 (reference) | |
| Yes | 66 (1.7) | 3.068 (1.891-4.977) < 0.001 | | 53 (3.2) | 3.353 (1.705, 6.596) 0.001 | | 13 (0.6) | 1.443 (0.656, 3.174) 0.362 |
| **Average frequency of pesticide use per year** | | | | | | | | | |
| Continuous | 1.015 (1.002-1.029) 0.028 | 1.009 (0.991-1.026) 0.328 | 1.008 (0.973-1.044) 0.649 |
| < 5 | 46 (1.1) | 1.000 (reference) | 29 (2.2) | 1.000 (reference) | 17 (0.6) | 1.000 (reference) |
| 5-9 | 9 (0.9) | 0.902 (0.440-1.847) 0.778 | 7 (1.9) | 0.889 (0.388-2.034) 0.780 | 2 (0.3) | 0.617 (0.142-2.683) 0.519 |
| 10-19 | 26 (2.0) | 1.945 (1.198-3.159) 0.007 | 21 (3.6) | 1.638 (0.93-2.885) 0.087 | 5 (0.7) | 1.292 (0.473-3.527) 0.617 |
| ≥ 20 | 9 (1.5) | 1.491 (0.728-3.055) 0.275 | 7 (2.1) | 0.972 (0.424-2.225) 0.946 | 2 (0.7) | 1.402 (0.322-6.100) 0.652 |
| **Duration of pesticide use (yr)** | | | | | | | | | |
| Continuous | 1.025 (1.014-1.037) < 0.001 | 1.02 (1.006-1.035) 0.006 | 1.021 (1.000-1.042) 0.054 |
| < 5 | 20 (0.7) | 1.000 (reference) | 9 (1.2) | 1.000 (reference) | 11 (0.5) | 1.000 (reference) |
| 5-9 | 4 (1.2) | 2.202 (0.745-6.508) 0.154 | 3 (2.2) | 2.25 (0.598-8.47) 0.231 | 1 (0.5) | 1.271 (0.163-9.945) 0.820 |
| 10-19 | 8 (1.2) | 2.028 (0.881-4.666) 0.096 | 7 (2.5) | 2.642 (0.960-7.273) 0.060 | 1 (0.2) | 0.558 (0.071-4.363) 0.578 |
| ≥ 20 | 58 (1.7) | 3.171 (1.867-5.386) < 0.001 | 45 (3.1) | 3.236 (1.530-6.842) 0.002 | 13 (0.7) | 1.701 (0.742-3.897) 0.209 |
| **Smoking status, pack-years** | | | | | | | | | |
| Continuous | 1.03 (1.025-1.035) < 0.001 | 1.024 (1.017-1.031) < 0.001 | 1.035 (0.995-1.077) 0.086 |
| Never smoker | 21 (0.4) | 1.000 (reference) | 1 (0.2) | 1.000 (reference) | 20 (0.5) | 1.000 (reference) |
| < 30 | 23 (1.7) | 4.193 (2.320-7.577) < 0.001 | 18 (1.7) | 8.872 (1.184-66.474) 0.034 | 5 (1.7) | 4.166 (1.562-11.115) 0.004 |
| ≥ 30 | 46 (4.3) | 11.487 (6.842-19.285) < 0.001 | 45 (4.4) | 25.064 (3.455-181.824) 0.001 | 1 (2.4) | 5.869 (0.788-43.730) 0.084 |
| **Model 2** | | | | | | | | | |
| **Occupational pesticide use** | | | | | | | | | |
| No | 24 (0.7) | 1.000 (reference) | 11 (1.2) | 1.000 (reference) | 13 (0.5) | 1.000 (reference) |
| Yes | 66 (1.7) | 1.825 (1.026-3.248) 0.041 | 53 (3.2) | 2.469 (1.071-5.691) 0.034 | 13 (0.6) | 1.245 (0.492-3.147) 0.643 |
| Duration of pesticide use (yr) | Continuous | < 5 | 5-9 | 10-19 | ≥ 20 |
|--------------------------------|------------|-----|-----|-------|------|
| Continuous                     | 1 (0.981-1.018) | 0.959 | 0.997 (0.976-1.019) | 0.809 | 1.009 (0.969-1.051) | 0.666 |
| < 5                            | 46 (1.1)   | 1.000 (reference) | 29 (2.2) | 1.000 (reference) | 17 (0.6) | 1.000 (reference) |
| 5-9                            | 9 (0.9)    | 0.643 (0.306-1.353) | 0.245 | 7 (1.9) | 0.697 (0.294-1.654) | 0.413 | 2 (0.3) | 0.595 (0.130-2.727) | 0.504 |
| 10-19                          | 26 (2.0)   | 1.169 (0.676-2.020) | 0.577 | 21 (3.6) | 1.16 (0.607-2.217) | 0.654 | 5 (0.7) | 1.17 (0.393-3.485) | 0.778 |
| ≥ 20                           | 9 (1.5)    | 0.729 (0.333-1.595) | 0.429 | 7 (2.1) | 0.609 (0.244-1.521) | 0.288 | 2 (0.7) | 1.234 (0.262-5.810) | 0.791 |

| Smoking status (pack-years)    | Continuous | < 30 | ≥ 30 |
|--------------------------------|------------|-----|------|
| Continuous                     | 1.02 (1.013-1.028) | < 0.001 | 0.012 (1.013-1.029) | < 0.001 | 1.027 (0.984-1.071) | 0.228 |
| Never smoker                   | 21 (0.4)   | 1.000 (reference) | 1 (0.2) | 1.000 (reference) | 20 (0.5) | 1.000 (reference) |
| < 30                           | 23 (1.7)   | 3.433 (1.654-7.126) | 0.001 | 18 (1.7) | 10.535 (1.400-79.299) | 0.022 | 5 (1.7) | 3.448 (1.213-9.805) | 0.020 |
| ≥ 30                           | 46 (4.3)   | 7.485 (3.488-16.060) | < 0.001 | 45 (4.4) | 22.023 (3.023-160.467) | 0.002 | 1 (2.4) | 4.721 (0.583-38.218) | 0.146 |

CI, confidence interval; HR, hazard ratio. Model 1: unadjusted. Model 2: Adjusted by age (continuous), sex, smoking status (pack-years, continuous), alcohol consumption, physical activity, obesity, education level, year of cohort entry and study area.