**Supplemental Material**

**The impact of environmental pollution on the health of middle-aged and older adults in China**

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Table 5 The effects of environmental pollution by age group.

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Variables | 45-59 | | |  | 60-74 | | |  | 75+ | | |
| (1) | (2) | (3) |  | (4)  （2） | (5) | (6) |  | (7)  （2） | (8) | (9) |
| SO2 | 0.0039\*\*\* |  |  |  | 0.0074\*\*\* |  |  |  | 0.0061\*\*\* |  |  |
| (0.0007) |  |  |  | (0.0006) |  |  |  | (0.0014) |  |  |
| PM |  | 0.0171\*\*\* |  |  |  | 0.0407\*\*\* |  |  |  | 0.0316\*\*\* |  |
|  | (0.0042) |  |  |  | (0.0036) |  |  |  | (0.0073) |  |
| Wastewater |  |  | 0.0192 |  |  |  | 0.1153\*\*\*\* |  |  |  | 0.0299 |
|  |  | (0.0284) |  |  |  | (0.0245) |  |  |  | (0.0352) |
| Control variables | Yes | Yes | Yes |  | Yes | Yes | Yes |  | Yes | Yes | Yes |
| Wald test | 76.04\*\*\* | 77.90\*\*\* | 62.53\*\*\* |  | 322.39\*\*\* | 274.87\*\*\* | 262.56\*\*\* |  | 111.47\*\*\* | 116.57\*\*\* | 125.59\*\*\* |
| (p=0.000) | (p=0.000) | (p=0.000) |  | (p=0.000) | (p=0.000) | (p=0.000) |  | (p=0.000) | (p=0.000) | (p=0.000) |
| N | 28,714 | | |  | 22,346 | | |  | 6,831 | | |

Note: \*\*\* P < 0.01, \*\* P < 0.05, \* P < 0.1. Clustered-robust standard errors are in parentheses. The other control variables were the same as shown in Table 2.

Table 6 The effects of environmental pollution by sex group.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Variables | Male | | |  | Female | | |
| (1) | (2) | (3) |  | (4)  （2） | (5) | (6) |
| SO2 | 0.0052\*\*\* |  |  |  | 0.0066\*\*\* |  |  |
| (0.0006) |  |  |  | (0.0005) |  |  |
| PM |  | 0.0258\*\*\* |  |  |  | 0.0330\*\*\* |  |
|  | (0.0036) |  |  |  | (0.0033) |  |
| Wastewater |  |  | 0.0458\*\* |  |  |  | 0.0971\*\*\* |
|  |  | (0.0211) |  |  |  | (0.0223) |
| Control variables | Yes | Yes | Yes |  | Yes | Yes | Yes |
| Wald test | 301.20\*\*\* | 254.08\*\*\* | 217.99\*\*\* |  | 318.09\*\*\* | 257.32\*\*\* | 212.70\*\*\* |
| (p=0.000) | (p=0.000) | (p=0.000) |  | (p=0.000) | (p=0.000) | (p=0.000) |
| N | 27,530 | | |  | 30,361 | | |

Note: \*\*\* P < 0.01, \*\* P < 0.05, \* P < 0.1. Clustered-robust standard errors are in parentheses. The other control variables were the same as shown in Table 2.

Table 7 The effects of environmental pollution by household income group.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Variables | Low income | | |  | High income | | |
| (1) | (2) | (3) |  | (4)  （2） | (5) | (6) |
| SO2 | 0.0060\*\*\* |  |  |  | 0.0031 |  |  |
| (0.0012) |  |  |  | (0.0026) |  |  |
| PM |  | 0.0267\*\*\* |  |  |  | 0.0062 |  |
|  | (0.0069) |  |  |  | (0.0139) |  |
| Wastewater |  |  | 0.1551\*\*\* |  |  |  | -0.0151 |
|  |  | (0.0424) |  |  |  | (0.0659) |
| Control variables | Yes | Yes | Yes |  | Yes | Yes | Yes |
| Wald test | 67.56\*\*\* | 56.12\*\*\* | 65.14\*\*\* |  | 22.02\*\* | 22.18\*\* | 35.59\*\*\* |
| (p=0.000) | (p=0.000) | (p=0.000) |  | (p=0.048) | (p=0.039) | (p=0.000) |
| N | 40,001 | | |  | 17,890 | | |

Note: \*\*\* P < 0.01, \*\* P < 0.05, \* P < 0.1. Clustered-robust standard errors are in parentheses. The other control variables were the same as shown in Table 2.

Table 8 The effects of environmental pollution by residential area group.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Variables | Urban | | |  | Rural | | |
| (1) | (2) | (3) |  | (4)  （2） | (5) | (6) |
| SO2 | 0.0066\*\*\* |  |  |  | 0.0061\*\*\* |  |  |
| (0.0006) |  |  |  | (0.0005) |  |  |
| PM |  | 0.0373\*\*\* |  |  |  | 0.0263\*\*\* |  |
|  | (0.0033) |  |  |  | (0.0035) |  |
| Wastewater |  |  | 0.1224\*\*\* |  |  |  | 0.0413\*\* |
|  |  | (0.0247) |  |  |  | (0.0192) |
| Control variables | Yes | Yes | Yes |  | Yes | Yes | Yes |
| Wald test | 317.22\*\*\* | 327.44\*\*\* | 219.02\*\*\* |  | 279.67\*\*\* | 284.02\*\*\* | 151.89\*\*\* |
| (p=0.000) | (p=0.000) | (p=0.000) |  | (p=0.000) | (p=0.000) | (p=0.000) |
| N | 34,313 | | |  | 23,578 | | |

Note: \*\*\* P < 0.01, \*\* P < 0.05, \* P < 0.1. Clustered-robust standard errors are in parentheses. The other control variables were the same as shown in Table 2.