# S11 Table. Percent change in hospital admissions per 10-μg/m3 increase in PM2.5 (lag 0-2 days) by minor disease categories, on average across all cities.

|  |  |  |  |  | Percent change in admissions per  10-μg/m3 increase in PM2.5, % | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | Single-pollutant model | | |  | Two-pollutant model | | |
| CCS code | Disease category |  | Total no. of admissions |  | Point estimate  (95% CI) | Unadjusted  *P* value | Adjusted  *P* value |  | Point estimate  (95% CI) | Unadjusted  *P* value | Adjusted  *P* value |
| 1 | Tuberculosis |  | 911,001 |  | -0.00 (-0.20, 0.19) | 0.997 | 0.997 |  | -0.05 (-0.28, 0.17) | 0.656 | 0.837 |
| 2 | Septicemia (except in labor) |  | 247,832 |  | 0.33 (-0.01, 0.67) | 0.059 | 0.203 |  | 0.44 (0.04, 0.84) | 0.030\* | 0.133 |
| 3 | Bacterial infection; unspecified site |  | 108,626 |  | 0.49 (0.00, 0.98) | 0.050\* | 0.184 |  | 0.67 (0.11, 1.23) | 0.018\* | 0.101 |
| 4 | Mycoses |  | 102,580 |  | 0.43 (-0.07, 0.92) | 0.090 | 0.271 |  | 0.58 (0.01, 1.15) | 0.048\* | 0.191 |
| 5 | HIV infection |  | 69,110 |  | 0.06 (-0.62, 0.73) | 0.864 | 0.922 |  | 0.12 (-0.68, 0.92) | 0.770 | 0.913 |
| 6 | Hepatitis |  | 812,827 |  | 0.22 (0.01, 0.43) | 0.045\* | 0.172 |  | 0.28 (0.04, 0.52) | 0.022\* | 0.110 |
| 7 | Viral infection |  | 1,287,445 |  | -0.45 (-0.62, -0.29) | <0.001\* | <0.001\* |  | -0.65 (-0.88, -0.42) | <0.001\* | <0.001\* |
| 8 | Other infections; including parasitic |  | 191,575 |  | 0.06 (-0.34, 0.45) | 0.775 | 0.894 |  | 0.09 (-0.37, 0.56) | 0.696 | 0.861 |
| 9 | Sexually transmitted infections (not HIV or hepatitis) |  | 88,870 |  | -0.14 (-0.96, 0.67) | 0.733 | 0.851 |  | 0.14 (-0.78, 1.06) | 0.761 | 0.913 |
| 10 | Immunizations and screening for infectious disease |  | 9,495 |  | 0.89 (-0.88, 2.66) | 0.324 | 0.548 |  | 1.31 (-0.83, 3.46) | 0.230 | 0.486 |
| 11 | Cancer of head and neck |  | 502,628 |  | 0.01 (-0.29, 0.31) | 0.966 | 0.971 |  | 0.09 (-0.21, 0.39) | 0.556 | 0.762 |
| 12 | Cancer of esophagus |  | 510,443 |  | 0.03 (-0.21, 0.27) | 0.793 | 0.897 |  | 0.03 (-0.24, 0.31) | 0.807 | 0.925 |
| 13 | Cancer of stomach |  | 854,446 |  | 0.09 (-0.09, 0.28) | 0.338 | 0.568 |  | 0.17 (-0.04, 0.38) | 0.112 | 0.344 |
| 14 | Cancer of colon |  | 495,169 |  | 0.05 (-0.18, 0.29) | 0.647 | 0.811 |  | 0.02 (-0.25, 0.29) | 0.887 | 0.938 |
| 15 | Cancer of rectum and anus |  | 505,433 |  | 0.15 (-0.10, 0.40) | 0.229 | 0.458 |  | 0.04 (-0.23, 0.31) | 0.784 | 0.913 |
| 16 | Cancer of liver and intrahepatic bile duct |  | 779,960 |  | 0.10 (-0.10, 0.30) | 0.316 | 0.540 |  | 0.17 (-0.07, 0.41) | 0.171 | 0.411 |
| 17 | Cancer of pancreas |  | 191,736 |  | 0.25 (-0.11, 0.61) | 0.170 | 0.390 |  | 0.29 (-0.13, 0.71) | 0.174 | 0.415 |
| 18 | Cancer of other GI organs; peritoneum |  | 227,609 |  | 0.19 (-0.13, 0.51) | 0.252 | 0.478 |  | 0.15 (-0.22, 0.53) | 0.424 | 0.688 |
| 19 | Cancer of bronchus; lung |  | 1,872,596 |  | 0.25 (0.11, 0.38) | <0.001\* | 0.006\* |  | 0.20 (0.05, 0.35) | 0.010\* | 0.071 |
| 20 | Cancer; other respiratory and intrathoracic |  | 14,943 |  | -0.40 (-1.67, 0.87) | 0.537 | 0.748 |  | -0.14 (-1.57, 1.29) | 0.849 | 0.933 |
| 21 | Cancer of bone and connective tissue |  | 94,158 |  | 0.46 (-0.05, 0.96) | 0.076 | 0.242 |  | 0.44 (-0.15, 1.03) | 0.147 | 0.391 |
| 22 | Melanomas of skin |  | 24,963 |  | 0.08 (-1.09, 1.24) | 0.898 | 0.933 |  | 0.51 (-0.68, 1.69) | 0.401 | 0.670 |
| 23 | Other non-epithelial cancer of skin |  | 77,862 |  | 0.66 (0.03, 1.30) | 0.040\* | 0.164 |  | 0.73 (-0.02, 1.49) | 0.057 | 0.215 |
| 24 | Cancer of breast |  | 1,031,596 |  | 0.26 (0.07, 0.45) | 0.007\* | 0.045\* |  | 0.25 (0.05, 0.46) | 0.014\* | 0.087 |
| 25 | Cancer of uterus |  | 173,071 |  | 0.04 (-0.33, 0.41) | 0.845 | 0.915 |  | 0.03 (-0.40, 0.46) | 0.889 | 0.938 |
| 26 | Cancer of cervix |  | 600,054 |  | 0.05 (-0.16, 0.27) | 0.619 | 0.797 |  | -0.01 (-0.26, 0.24) | 0.954 | 0.962 |
| 27 | Cancer of ovary |  | 202,125 |  | 0.25 (-0.10, 0.60) | 0.168 | 0.390 |  | 0.38 (-0.03, 0.79) | 0.068 | 0.242 |
| 28 | Cancer of other female genital organs |  | 38,206 |  | 0.45 (-0.39, 1.29) | 0.296 | 0.520 |  | 0.69 (-0.30, 1.68) | 0.170 | 0.411 |
| 29 | Cancer of prostate |  | 204,959 |  | -0.15 (-0.50, 0.20) | 0.401 | 0.623 |  | -0.13 (-0.53, 0.28) | 0.542 | 0.754 |
| 30 | Cancer of testis |  | 12,452 |  | 0.56 (-0.80, 1.92) | 0.419 | 0.638 |  | 1.15 (-0.42, 2.72) | 0.150 | 0.391 |
| 31 | Cancer of other male genital organs |  | 18,617 |  | -0.09 (-1.24, 1.05) | 0.872 | 0.922 |  | 0.19 (-1.18, 1.56) | 0.785 | 0.913 |
| 32 | Cancer of bladder |  | 212,065 |  | 0.16 (-0.18, 0.50) | 0.362 | 0.602 |  | 0.26 (-0.13, 0.65) | 0.195 | 0.442 |
| 33 | Cancer of kidney and renal pelvis |  | 165,670 |  | 0.24 (-0.12, 0.61) | 0.191 | 0.417 |  | 0.10 (-0.35, 0.56) | 0.659 | 0.837 |
| 34 | Cancer of other urinary organs |  | 26,281 |  | -0.12 (-1.03, 0.79) | 0.792 | 0.897 |  | 0.40 (-0.78, 1.58) | 0.504 | 0.736 |
| 35 | Cancer of brain and nervous system |  | 137,704 |  | 0.13 (-0.27, 0.53) | 0.527 | 0.748 |  | -0.02 (-0.50, 0.46) | 0.942 | 0.957 |
| 36 | Cancer of thyroid |  | 563,513 |  | 0.02 (-0.21, 0.25) | 0.878 | 0.922 |  | -0.09 (-0.36, 0.18) | 0.519 | 0.745 |
| 37 | Hodgkin’s disease |  | 34,210 |  | -0.10 (-0.93, 0.73) | 0.811 | 0.903 |  | -0.21 (-1.18, 0.76) | 0.670 | 0.846 |
| 38 | Non-Hodgkin’s lymphoma |  | 356,137 |  | 0.08 (-0.19, 0.35) | 0.546 | 0.749 |  | -0.02 (-0.33, 0.30) | 0.914 | 0.939 |
| 39 | Leukemias |  | 645,532 |  | 0.20 (-0.01, 0.41) | 0.062 | 0.207 |  | 0.11 (-0.13, 0.35) | 0.350 | 0.619 |
| 40 | Multiple myeloma |  | 146,549 |  | 0.13 (-0.34, 0.60) | 0.592 | 0.783 |  | 0.09 (-0.45, 0.62) | 0.749 | 0.913 |
| 41 | Cancer; other and unspecified primary |  | 129,460 |  | -0.14 (-0.56, 0.29) | 0.532 | 0.748 |  | -0.07 (-0.57, 0.43) | 0.787 | 0.913 |
| 42 | Secondary malignancies |  | 486,077 |  | 0.25 (0.01, 0.50) | 0.041\* | 0.164 |  | 0.21 (-0.07, 0.49) | 0.144 | 0.391 |
| 43 | Malignant neoplasm without specification of site |  | 61,211 |  | -0.36 (-1.01, 0.29) | 0.274 | 0.505 |  | -0.15 (-0.90, 0.60) | 0.692 | 0.861 |
| 44 | Neoplasms of unspecified nature or uncertain behavior |  | 508,677 |  | 0.29 (0.06, 0.52) | 0.012\* | 0.071 |  | 0.34 (0.08, 0.60) | 0.011\* | 0.074 |
| 45 | Maintenance chemotherapy; radiotherapy |  | 12,173,649 |  | 0.09 (-0.02, 0.19) | 0.105 | 0.287 |  | 0.12 (0.01, 0.23) | 0.029\* | 0.131 |
| 46 | Benign neoplasm of uterus |  | 1,010,719 |  | 0.08 (-0.12, 0.29) | 0.427 | 0.638 |  | 0.15 (-0.08, 0.38) | 0.208 | 0.458 |
| 47 | Other and unspecified benign neoplasm |  | 2,884,383 |  | 0.01 (-0.13, 0.14) | 0.898 | 0.933 |  | 0.01 (-0.13, 0.16) | 0.853 | 0.933 |
| 48 | Thyroid disorders |  | 1,080,281 |  | 0.15 (-0.04, 0.34) | 0.125 | 0.322 |  | 0.14 (-0.07, 0.35) | 0.184 | 0.427 |
| 49 | Diabetes mellitus without complication |  | 1,559,966 |  | 0.29 (0.15, 0.43) | <0.001\* | 0.001\* |  | 0.28 (0.12, 0.44) | <0.001\* | 0.011\* |
| 50 | Diabetes mellitus with complications |  | 1,601,337 |  | 0.44 (0.30, 0.58) | <0.001\* | <0.001\* |  | 0.44 (0.28, 0.60) | <0.001\* | <0.001\* |
| 51 | Other endocrine disorders |  | 391,190 |  | -0.07 (-0.36, 0.21) | 0.620 | 0.797 |  | -0.10 (-0.43, 0.24) | 0.576 | 0.780 |
| 52 | Nutritional deficiencies |  | 35,728 |  | -0.46 (-1.30, 0.38) | 0.286 | 0.516 |  | -0.54 (-1.52, 0.44) | 0.282 | 0.526 |
| 53 | Disorders of lipid metabolism |  | 68,063 |  | 0.14 (-0.43, 0.71) | 0.623 | 0.797 |  | 0.40 (-0.28, 1.08) | 0.253 | 0.504 |
| 54 | Gout and other crystal arthropathies |  | 189,684 |  | 0.31 (-0.15, 0.77) | 0.186 | 0.417 |  | 0.44 (-0.10, 0.98) | 0.114 | 0.344 |
| 55 | Fluid and electrolyte disorders |  | 78,150 |  | 0.04 (-0.52, 0.61) | 0.878 | 0.922 |  | 0.07 (-0.59, 0.73) | 0.840 | 0.933 |
| 57 | Immunity disorders |  | 12,701 |  | 1.05 (-0.74, 2.83) | 0.250 | 0.478 |  | 0.91 (-1.35, 3.17) | 0.430 | 0.691 |
| 58 | Other nutritional; endocrine; and metabolic disorders |  | 229,833 |  | 0.22 (-0.12, 0.56) | 0.200 | 0.422 |  | 0.45 (0.05, 0.84) | 0.026\* | 0.125 |
| 59 | Deficiency and other anemia |  | 682,025 |  | 0.33 (0.09, 0.57) | 0.008\* | 0.048\* |  | 0.41 (0.16, 0.66) | 0.001\* | 0.016\* |
| 60 | Acute posthemorrhagic anemia |  | 2,401 |  | 2.65 (-6.61, 11.92) | 0.575 | 0.772 |  | -2.27 (-12.21, 7.67) | 0.654 | 0.837 |
| 62 | Coagulation and hemorrhagic disorders |  | 592,711 |  | -0.30 (-0.53, -0.07) | 0.010\* | 0.058 |  | -0.29 (-0.54, -0.05) | 0.020\* | 0.103 |
| 63 | Diseases of white blood cells |  | 70,776 |  | 0.14 (-0.45, 0.74) | 0.638 | 0.805 |  | 0.10 (-0.59, 0.80) | 0.770 | 0.913 |
| 64 | Other hematologic conditions |  | 78,999 |  | 0.54 (0.01, 1.07) | 0.046\* | 0.173 |  | 0.73 (0.12, 1.35) | 0.020\* | 0.103 |
| 65 | Mental retardation |  | 30,747 |  | -1.02 (-1.99, -0.05) | 0.040\* | 0.164 |  | -0.80 (-1.93, 0.32) | 0.163 | 0.408 |
| 66 | Alcohol-related mental disorders |  | 63,812 |  | 0.67 (-0.17, 1.52) | 0.116 | 0.307 |  | 0.76 (-0.23, 1.74) | 0.131 | 0.372 |
| 67 | Substance-related mental disorders |  | 9,443 |  | -0.34 (-2.20, 1.52) | 0.722 | 0.845 |  | -0.31 (-2.52, 1.90) | 0.784 | 0.913 |
| 68 | Senility and organic mental disorders |  | 197,581 |  | -0.13 (-0.51, 0.24) | 0.485 | 0.700 |  | 0.03 (-0.42, 0.47) | 0.906 | 0.939 |
| 69 | Affective disorders |  | 310,099 |  | 0.18 (-0.13, 0.48) | 0.254 | 0.478 |  | 0.27 (-0.12, 0.67) | 0.169 | 0.411 |
| 70 | Schizophrenia and related disorders |  | 348,859 |  | 0.12 (-0.29, 0.54) | 0.558 | 0.755 |  | 0.17 (-0.28, 0.61) | 0.463 | 0.717 |
| 71 | Other psychoses |  | 15,470 |  | 0.58 (-0.73, 1.89) | 0.385 | 0.611 |  | 0.86 (-0.63, 2.34) | 0.257 | 0.504 |
| 72 | Anxiety; somatoform; dissociative; and personality disorders |  | 441,926 |  | 0.46 (0.19, 0.72) | <0.001\* | 0.007\* |  | 0.44 (0.15, 0.74) | 0.003\* | 0.037\* |
| 73 | Preadult disorders |  | 12,140 |  | -0.54 (-2.03, 0.95) | 0.476 | 0.699 |  | -0.60 (-2.34, 1.13) | 0.495 | 0.733 |
| 74 | Other mental conditions |  | 56,465 |  | 1.16 (0.46, 1.87) | 0.001\* | 0.011\* |  | 0.89 (0.07, 1.70) | 0.033\* | 0.136 |
| 76 | Meningitis (except that caused by tuberculosis or sexually transmitted disease) |  | 76,103 |  | 0.02 (-0.56, 0.59) | 0.954 | 0.969 |  | 0.39 (-0.28, 1.07) | 0.255 | 0.504 |
| 77 | Encephalitis (except that caused by tuberculosis or sexually transmitted disease) |  | 366,528 |  | 0.19 (-0.10, 0.47) | 0.204 | 0.425 |  | 0.14 (-0.19, 0.47) | 0.401 | 0.670 |
| 78 | Other CNS infection and poliomyelitis |  | 75,956 |  | 0.07 (-0.53, 0.66) | 0.827 | 0.910 |  | -0.04 (-0.73, 0.65) | 0.904 | 0.939 |
| 79 | Parkinson’s disease |  | 158,499 |  | 0.34 (-0.07, 0.74) | 0.101 | 0.278 |  | 0.27 (-0.19, 0.74) | 0.252 | 0.504 |
| 80 | Multiple sclerosis |  | 19,147 |  | -0.90 (-2.06, 0.25) | 0.126 | 0.322 |  | -0.94 (-2.31, 0.43) | 0.179 | 0.421 |
| 81 | Other hereditary and degenerative nervous system conditions |  | 241,382 |  | 0.32 (-0.00, 0.64) | 0.054 | 0.194 |  | 0.28 (-0.10, 0.65) | 0.147 | 0.391 |
| 82 | Paralysis |  | 188,113 |  | 0.37 (-0.04, 0.78) | 0.077 | 0.242 |  | 0.52 (0.04, 0.99) | 0.032\* | 0.136 |
| 83 | Epilepsy; convulsions |  | 707,298 |  | 0.06 (-0.15, 0.27) | 0.596 | 0.784 |  | 0.13 (-0.11, 0.36) | 0.288 | 0.531 |
| 84 | Headache; including migraine |  | 313,017 |  | -0.17 (-0.55, 0.21) | 0.377 | 0.611 |  | -0.14 (-0.53, 0.25) | 0.477 | 0.717 |
| 85 | Coma; stupor; and brain damage |  | 83,333 |  | 0.48 (-0.08, 1.05) | 0.095 | 0.276 |  | 0.48 (-0.17, 1.13) | 0.148 | 0.391 |
| 86 | Cataract |  | 2,083,086 |  | 0.30 (0.02, 0.58) | 0.035\* | 0.153 |  | 0.18 (-0.14, 0.50) | 0.269 | 0.517 |
| 87 | Retinal detachments; defects; vascular occlusion; and retinopathy |  | 563,655 |  | -0.03 (-0.28, 0.22) | 0.825 | 0.910 |  | 0.02 (-0.27, 0.30) | 0.914 | 0.939 |
| 88 | Glaucoma |  | 357,287 |  | 0.13 (-0.17, 0.44) | 0.387 | 0.611 |  | 0.05 (-0.28, 0.39) | 0.753 | 0.913 |
| 89 | Blindness and vision defects |  | 18,362 |  | 0.29 (-1.17, 1.74) | 0.698 | 0.836 |  | 0.79 (-0.94, 2.53) | 0.369 | 0.643 |
| 90 | Inflammation; infection of eye (except that caused by tuberculosis or sexually transmitteddisease) |  | 297,381 |  | -0.02 (-0.34, 0.30) | 0.914 | 0.939 |  | -0.00 (-0.37, 0.36) | 0.997 | 0.997 |
| 91 | Other eye disorders |  | 1,155,446 |  | 0.07 (-0.12, 0.26) | 0.481 | 0.700 |  | 0.10 (-0.17, 0.36) | 0.471 | 0.717 |
| 92 | Otitis media and related conditions |  | 264,907 |  | 0.07 (-0.26, 0.40) | 0.674 | 0.823 |  | 0.06 (-0.32, 0.43) | 0.770 | 0.913 |
| 93 | Conditions associated with dizziness or vertigo |  | 576,577 |  | 0.40 (0.18, 0.63) | <0.001\* | 0.006\* |  | 0.39 (0.14, 0.65) | 0.003\* | 0.033\* |
| 94 | Other ear and sense organ disorders |  | 480,097 |  | -0.02 (-0.27, 0.22) | 0.846 | 0.915 |  | 0.02 (-0.26, 0.30) | 0.896 | 0.939 |
| 95 | Other nervous system disorders |  | 1,218,357 |  | 0.16 (0.00, 0.32) | 0.043\* | 0.170 |  | 0.14 (-0.05, 0.32) | 0.150 | 0.391 |
| 96 | Heart valve disorders |  | 361,550 |  | 0.23 (-0.04, 0.50) | 0.097 | 0.277 |  | 0.31 (-0.01, 0.62) | 0.058 | 0.216 |
| 97 | Peri-; endo-; and myocarditis; cardiomyopathy (except that caused by tuberculosis or sexually transmitted disease) |  | 539,506 |  | 0.43 (0.18, 0.67) | <0.001\* | 0.007\* |  | 0.44 (0.14, 0.73) | 0.004\* | 0.037\* |
| 98 | Essential hypertension |  | 1,932,066 |  | 0.17 (0.02, 0.33) | 0.027\* | 0.135 |  | 0.23 (0.05, 0.41) | 0.012\* | 0.074 |
| 99 | Hypertension with complications and secondary hypertension |  | 224,487 |  | 0.21 (-0.26, 0.68) | 0.386 | 0.611 |  | 0.43 (-0.09, 0.95) | 0.105 | 0.333 |
| 100 | Acute myocardial infarction |  | 905,773 |  | 0.32 (0.16, 0.49) | <0.001\* | 0.002\* |  | 0.27 (0.08, 0.46) | 0.005\* | 0.046\* |
| 101 | Coronary atherosclerosis and other heart disease |  | 5,602,675 |  | 0.27 (0.18, 0.36) | <0.001\* | <0.001\* |  | 0.28 (0.18, 0.38) | <0.001\* | <0.001\* |
| 102 | Nonspecific chest pain |  | 33,587 |  | -0.09 (-1.01, 0.83) | 0.847 | 0.915 |  | 0.38 (-0.63, 1.39) | 0.462 | 0.717 |
| 103 | Pulmonary heart disease |  | 211,172 |  | 0.54 (0.18, 0.90) | 0.003\* | 0.023\* |  | 0.42 (0.02, 0.83) | 0.042\* | 0.170 |
| 104 | Other and ill-defined heart disease |  | 38,582 |  | -0.42 (-1.21, 0.36) | 0.289 | 0.518 |  | -0.07 (-0.98, 0.83) | 0.873 | 0.938 |
| 105 | Conduction disorders |  | 127,505 |  | 0.10 (-0.40, 0.60) | 0.695 | 0.836 |  | 0.17 (-0.40, 0.74) | 0.559 | 0.762 |
| 106 | Cardiac dysrhythmias |  | 1,233,373 |  | 0.37 (0.17, 0.57) | <0.001\* | 0.005\* |  | 0.35 (0.12, 0.58) | 0.003\* | 0.033\* |
| 107 | Cardiac arrest and ventricular fibrillation |  | 36,199 |  | 0.18 (-0.65, 1.01) | 0.665 | 0.822 |  | -0.13 (-1.10, 0.84) | 0.792 | 0.913 |
| 108 | Congestive heart failure; nonhypertensive |  | 429,258 |  | 0.38 (0.13, 0.63) | 0.003\* | 0.023\* |  | 0.41 (0.13, 0.70) | 0.004\* | 0.040\* |
| 109 | Acute cerebrovascular disease |  | 5,301,927 |  | 0.03 (-0.05, 0.12) | 0.424 | 0.638 |  | 0.06 (-0.04, 0.15) | 0.256 | 0.504 |
| 110 | Occlusion or stenosis of precerebral arteries |  | 87,918 |  | 0.29 (-0.20, 0.78) | 0.251 | 0.478 |  | 0.05 (-0.61, 0.70) | 0.888 | 0.938 |
| 111 | Other and ill-defined cerebrovascular disease |  | 922,625 |  | 0.13 (-0.05, 0.31) | 0.157 | 0.369 |  | 0.13 (-0.07, 0.34) | 0.205 | 0.458 |
| 112 | Transient cerebral ischemia |  | 1,632,182 |  | 0.24 (0.10, 0.39) | 0.001\* | 0.011\* |  | 0.31 (0.16, 0.46) | <0.001\* | 0.002\* |
| 113 | Late effects of cerebrovascular disease |  | 393,340 |  | 0.31 (0.03, 0.60) | 0.029\* | 0.137 |  | 0.31 (-0.02, 0.63) | 0.068 | 0.242 |
| 114 | Peripheral and visceral atherosclerosis |  | 228,819 |  | 0.21 (-0.12, 0.54) | 0.208 | 0.430 |  | 0.25 (-0.12, 0.62) | 0.191 | 0.439 |
| 115 | Aortic; peripheral; and visceral artery aneurysms |  | 199,457 |  | 0.11 (-0.29, 0.51) | 0.585 | 0.779 |  | 0.19 (-0.24, 0.61) | 0.396 | 0.670 |
| 116 | Aortic and peripheral arterial embolism or thrombosis |  | 49,080 |  | -0.15 (-0.87, 0.57) | 0.687 | 0.833 |  | -0.33 (-1.12, 0.46) | 0.418 | 0.683 |
| 117 | Other circulatory disease |  | 210,983 |  | 0.39 (-0.04, 0.81) | 0.074 | 0.240 |  | 0.30 (-0.17, 0.78) | 0.210 | 0.458 |
| 118 | Phlebitis; thrombophlebitis and thromboembolism |  | 222,791 |  | 0.22 (-0.13, 0.57) | 0.220 | 0.449 |  | 0.24 (-0.15, 0.62) | 0.224 | 0.478 |
| 119 | Varicose veins of lower extremity |  | 322,454 |  | -0.06 (-0.36, 0.25) | 0.716 | 0.845 |  | 0.11 (-0.24, 0.46) | 0.542 | 0.754 |
| 120 | Hemorrhoids |  | 582,380 |  | 0.23 (-0.01, 0.48) | 0.064 | 0.210 |  | 0.26 (-0.03, 0.56) | 0.078 | 0.270 |
| 121 | ther diseases of veins and lymphatics |  | 232,594 |  | 0.17 (-0.21, 0.56) | 0.377 | 0.611 |  | 0.16 (-0.28, 0.61) | 0.472 | 0.717 |
| 122 | Pneumonia (except that caused by tuberculosis or sexually transmitted disease) |  | 4,838,952 |  | 0.45 (0.35, 0.55) | <0.001\* | <0.001\* |  | 0.29 (0.20, 0.39) | <0.001\* | <0.001\* |
| 123 | Influenza |  | 18,139 |  | 0.70 (-2.17, 3.57) | 0.633 | 0.805 |  | -0.28 (-4.00, 3.44) | 0.884 | 0.938 |
| 124 | Acute and chronic tonsillitis |  | 1,098,734 |  | -0.05 (-0.25, 0.15) | 0.608 | 0.793 |  | -0.13 (-0.37, 0.11) | 0.283 | 0.526 |
| 125 | Acute bronchitis |  | 1,264,828 |  | 0.33 (0.16, 0.50) | <0.001\* | 0.002\* |  | 0.25 (0.06, 0.45) | 0.010\* | 0.071 |
| 126 | Other upper respiratory infections |  | 1,578,611 |  | 0.14 (-0.02, 0.30) | 0.094 | 0.276 |  | 0.04 (-0.14, 0.23) | 0.654 | 0.837 |
| 127 | Chronic obstructive pulmonary disease and bronchiectasis |  | 2,752,048 |  | 0.70 (0.56, 0.83) | <0.001\* | <0.001\* |  | 0.67 (0.52, 0.81) | <0.001\* | <0.001\* |
| 128 | Asthma |  | 352,056 |  | 0.16 (-0.13, 0.45) | 0.280 | 0.511 |  | 0.04 (-0.29, 0.37) | 0.824 | 0.928 |
| 129 | Aspiration pneumonitis; food/vomitus |  | 37,475 |  | 0.63 (-0.24, 1.50) | 0.154 | 0.366 |  | 0.59 (-0.46, 1.64) | 0.270 | 0.517 |
| 130 | Pleurisy; pneumothorax; pulmonary collapse |  | 383,664 |  | 0.09 (-0.18, 0.35) | 0.536 | 0.748 |  | -0.03 (-0.35, 0.28) | 0.829 | 0.928 |
| 131 | Respiratory failure; insufficiency; arrest (adult) |  | 107,162 |  | 0.39 (-0.11, 0.89) | 0.127 | 0.322 |  | 0.24 (-0.33, 0.81) | 0.405 | 0.670 |
| 132 | Lung disease due to external agents |  | 88,708 |  | 0.50 (-0.26, 1.25) | 0.197 | 0.421 |  | 0.72 (-0.00, 1.45) | 0.051 | 0.201 |
| 133 | Other lower respiratory disease |  | 1,824,000 |  | 0.35 (0.22, 0.48) | <0.001\* | <0.001\* |  | 0.37 (0.22, 0.53) | <0.001\* | <0.001\* |
| 134 | Other upper respiratory disease |  | 1,196,109 |  | 0.37 (0.19, 0.55) | <0.001\* | 0.002\* |  | 0.30 (0.09, 0.51) | 0.005\* | 0.046\* |
| 135 | Intestinal infection |  | 305,833 |  | 0.81 (0.33, 1.30) | <0.001\* | 0.009\* |  | 1.04 (0.51, 1.57) | <0.001\* | 0.003\* |
| 136 | Disorders of teeth and jaw |  | 280,120 |  | 0.02 (-0.32, 0.36) | 0.908 | 0.938 |  | 0.02 (-0.37, 0.41) | 0.920 | 0.941 |
| 137 | Diseases of mouth; excluding dental |  | 272,721 |  | 0.15 (-0.19, 0.48) | 0.394 | 0.617 |  | 0.09 (-0.28, 0.47) | 0.635 | 0.835 |
| 138 | Esophageal disorders |  | 330,857 |  | 0.44 (0.16, 0.73) | 0.002\* | 0.020\* |  | 0.58 (0.25, 0.90) | <0.001\* | 0.009\* |
| 139 | Gastroduodenal ulcer (except hemorrhage) |  | 384,425 |  | 0.09 (-0.21, 0.39) | 0.552 | 0.752 |  | 0.10 (-0.23, 0.44) | 0.545 | 0.754 |
| 140 | Gastritis and duodenitis |  | 1,183,930 |  | 0.20 (0.03, 0.37) | 0.019\* | 0.105 |  | 0.21 (0.02, 0.40) | 0.031\* | 0.136 |
| 141 | Other disorders of stomach and duodenum |  | 461,535 |  | 0.21 (-0.05, 0.46) | 0.115 | 0.307 |  | 0.20 (-0.07, 0.48) | 0.152 | 0.391 |
| 142 | Appendicitis and other appendiceal conditions |  | 1,005,200 |  | 0.11 (-0.07, 0.30) | 0.232 | 0.458 |  | 0.08 (-0.14, 0.30) | 0.474 | 0.717 |
| 143 | Abdominal hernia |  | 1,120,233 |  | 0.30 (0.08, 0.51) | 0.007\* | 0.045\* |  | 0.36 (0.10, 0.62) | 0.007\* | 0.055 |
| 144 | Regional enteritis and ulcerative colitis |  | 159,991 |  | 0.09 (-0.32, 0.49) | 0.670 | 0.823 |  | 0.04 (-0.44, 0.52) | 0.874 | 0.938 |
| 145 | Intestinal obstruction without hernia |  | 637,056 |  | 0.30 (0.08, 0.51) | 0.006\* | 0.042\* |  | 0.37 (0.11, 0.63) | 0.005\* | 0.046\* |
| 146 | Diverticulosis and diverticulitis |  | 16,494 |  | 0.06 (-1.15, 1.27) | 0.924 | 0.944 |  | -0.16 (-1.60, 1.28) | 0.827 | 0.928 |
| 147 | Anal and rectal conditions |  | 613,938 |  | 0.01 (-0.22, 0.23) | 0.964 | 0.971 |  | -0.05 (-0.31, 0.20) | 0.685 | 0.858 |
| 148 | Peritonitis and intestinal abscess |  | 105,973 |  | 0.21 (-0.33, 0.74) | 0.447 | 0.662 |  | 0.15 (-0.45, 0.75) | 0.622 | 0.823 |
| 149 | Biliary tract disease |  | 2,535,207 |  | -0.02 (-0.15, 0.11) | 0.797 | 0.897 |  | 0.05 (-0.09, 0.18) | 0.492 | 0.733 |
| 150 | Liver disease; alcohol-related |  | 94,037 |  | 0.41 (-0.13, 0.94) | 0.135 | 0.330 |  | 0.36 (-0.26, 0.98) | 0.253 | 0.504 |
| 151 | Other liver diseases |  | 1,398,024 |  | 0.30 (0.15, 0.44) | <0.001\* | 0.001\* |  | 0.31 (0.13, 0.49) | <0.001\* | 0.011\* |
| 152 | Pancreatic disorders (not diabetes) |  | 574,406 |  | -0.04 (-0.27, 0.18) | 0.707 | 0.841 |  | 0.08 (-0.18, 0.35) | 0.534 | 0.754 |
| 153 | Gastrointestinal hemorrhage |  | 811,588 |  | 0.27 (0.08, 0.46) | 0.005\* | 0.039\* |  | 0.29 (0.07, 0.51) | 0.010\* | 0.071 |
| 154 | Noninfectious gastroenteritis |  | 690,820 |  | 0.41 (0.18, 0.65) | <0.001\* | 0.007\* |  | 0.48 (0.22, 0.73) | <0.001\* | 0.004\* |
| 155 | Other gastrointestinal disorders |  | 943,699 |  | 0.10 (-0.07, 0.27) | 0.261 | 0.487 |  | 0.13 (-0.07, 0.33) | 0.212 | 0.459 |
| 156 | Nephritis; nephrosis; renal sclerosis |  | 825,703 |  | 0.20 (0.02, 0.38) | 0.029\* | 0.137 |  | 0.19 (-0.02, 0.40) | 0.080 | 0.274 |
| 157 | Acute and unspecified renal failure |  | 204,743 |  | 0.33 (-0.12, 0.78) | 0.145 | 0.350 |  | 0.24 (-0.30, 0.78) | 0.385 | 0.663 |
| 158 | Chronic renal failure |  | 1,324,204 |  | 0.27 (0.11, 0.42) | <0.001\* | 0.007\* |  | 0.23 (0.05, 0.40) | 0.011\* | 0.074 |
| 159 | Urinary tract infections |  | 478,841 |  | 0.05 (-0.19, 0.30) | 0.657 | 0.818 |  | 0.01 (-0.27, 0.29) | 0.957 | 0.962 |
| 160 | Calculus of urinary tract |  | 912,475 |  | 0.19 (-0.00, 0.38) | 0.056 | 0.199 |  | 0.20 (-0.03, 0.42) | 0.083 | 0.278 |
| 161 | Other diseases of kidney and ureters |  | 893,240 |  | 0.21 (0.01, 0.41) | 0.035\* | 0.153 |  | 0.18 (-0.05, 0.42) | 0.127 | 0.372 |
| 162 | Other diseases of bladder and urethra |  | 158,245 |  | 0.51 (0.12, 0.90) | 0.010\* | 0.061 |  | 0.61 (0.16, 1.06) | 0.008\* | 0.061 |
| 163 | Genitourinary symptoms and ill-defined conditions |  | 272,596 |  | 0.14 (-0.20, 0.48) | 0.426 | 0.638 |  | 0.12 (-0.26, 0.50) | 0.526 | 0.749 |
| 164 | Hyperplasia of prostate |  | 519,136 |  | 0.12 (-0.11, 0.36) | 0.305 | 0.531 |  | 0.33 (0.06, 0.60) | 0.017\* | 0.101 |
| 165 | Inflammatory conditions of male genital organs |  | 118,237 |  | -0.27 (-0.78, 0.24) | 0.295 | 0.520 |  | -0.07 (-0.68, 0.54) | 0.821 | 0.928 |
| 166 | Other male genital disorders |  | 510,115 |  | -0.24 (-0.61, 0.12) | 0.189 | 0.417 |  | -0.14 (-0.53, 0.26) | 0.505 | 0.736 |
| 167 | Nonmalignant breast conditions |  | 547,288 |  | 0.23 (-0.01, 0.47) | 0.059 | 0.203 |  | 0.16 (-0.13, 0.44) | 0.279 | 0.526 |
| 168 | Inflammatory diseases of female pelvic organs |  | 511,738 |  | 0.31 (0.03, 0.58) | 0.027\* | 0.135 |  | 0.32 (-0.01, 0.65) | 0.056 | 0.213 |
| 169 | Endometriosis |  | 423,108 |  | -0.04 (-0.30, 0.23) | 0.780 | 0.894 |  | 0.16 (-0.15, 0.47) | 0.320 | 0.578 |
| 170 | Prolapse of female genital organs |  | 124,311 |  | 0.40 (-0.05, 0.85) | 0.084 | 0.260 |  | 0.45 (-0.06, 0.97) | 0.085 | 0.280 |
| 171 | Menstrual disorders |  | 223,970 |  | 0.42 (0.04, 0.80) | 0.031\* | 0.141 |  | 0.34 (-0.08, 0.77) | 0.113 | 0.344 |
| 172 | Ovarian cyst |  | 226,405 |  | 0.29 (-0.05, 0.62) | 0.099 | 0.277 |  | 0.33 (-0.10, 0.75) | 0.129 | 0.372 |
| 173 | Menopausal disorders |  | 20,765 |  | 0.15 (-1.04, 1.33) | 0.808 | 0.903 |  | 0.13 (-1.20, 1.46) | 0.852 | 0.933 |
| 174 | Female infertility |  | 208,894 |  | -0.32 (-0.77, 0.14) | 0.175 | 0.396 |  | -0.36 (-0.82, 0.10) | 0.125 | 0.372 |
| 175 | Other female genital disorders |  | 1,005,624 |  | 0.07 (-0.10, 0.25) | 0.428 | 0.638 |  | 0.09 (-0.12, 0.29) | 0.406 | 0.670 |
| 197 | Skin and subcutaneous tissue infections |  | 352,100 |  | -0.02 (-0.31, 0.26) | 0.876 | 0.922 |  | -0.09 (-0.45, 0.27) | 0.612 | 0.817 |
| 198 | Other inflammatory condition of skin |  | 314,154 |  | 0.18 (-0.12, 0.48) | 0.238 | 0.467 |  | 0.09 (-0.25, 0.44) | 0.588 | 0.790 |
| 199 | Chronic ulcer of skin |  | 61,605 |  | 0.51 (-0.16, 1.18) | 0.134 | 0.330 |  | 0.38 (-0.40, 1.16) | 0.342 | 0.613 |
| 200 | Other skin disorders |  | 571,424 |  | 0.04 (-0.19, 0.27) | 0.723 | 0.845 |  | 0.10 (-0.16, 0.37) | 0.445 | 0.706 |
| 201 | Infective arthritis and osteomyelitis (except that caused by tuberculosis or sexually transmitted disease) |  | 161,280 |  | 0.44 (0.02, 0.87) | 0.041\* | 0.164 |  | 0.43 (-0.08, 0.93) | 0.096 | 0.311 |
| 202 | Rheumatoid arthritis and related disease |  | 412,276 |  | -0.17 (-0.44, 0.10) | 0.222 | 0.449 |  | -0.16 (-0.46, 0.14) | 0.298 | 0.544 |
| 203 | Osteoarthritis |  | 433,178 |  | 0.32 (0.04, 0.60) | 0.023\* | 0.122 |  | 0.38 (0.07, 0.70) | 0.018\* | 0.101 |
| 204 | Other non-traumatic joint disorders |  | 214,644 |  | 0.21 (-0.20, 0.63) | 0.308 | 0.531 |  | 0.12 (-0.39, 0.62) | 0.654 | 0.837 |
| 205 | Spondylosis; intervertebral disc disorders; other back problems |  | 2,187,055 |  | 0.27 (0.12, 0.42) | <0.001\* | 0.007\* |  | 0.32 (0.14, 0.49) | <0.001\* | 0.006\* |
| 206 | Osteoporosis |  | 140,678 |  | 0.67 (0.10, 1.23) | 0.021\* | 0.110 |  | 0.68 (0.08, 1.28) | 0.027\* | 0.127 |
| 207 | Pathological fracture |  | 114,539 |  | 0.33 (-0.17, 0.83) | 0.193 | 0.418 |  | 0.30 (-0.33, 0.93) | 0.352 | 0.619 |
| 208 | Acquired foot deformities |  | 15,801 |  | -0.55 (-1.77, 0.67) | 0.374 | 0.611 |  | -0.48 (-1.91, 0.95) | 0.514 | 0.743 |
| 209 | Other acquired deformities |  | 174,068 |  | 0.12 (-0.26, 0.49) | 0.541 | 0.748 |  | 0.17 (-0.28, 0.62) | 0.447 | 0.706 |
| 210 | Systemic lupus erythematosus and connective tissue disorders |  | 593,865 |  | 0.18 (-0.05, 0.40) | 0.128 | 0.322 |  | 0.16 (-0.11, 0.44) | 0.244 | 0.504 |
| 211 | Other connective tissue disease |  | 473,131 |  | 0.21 (-0.03, 0.46) | 0.091 | 0.271 |  | 0.34 (0.05, 0.62) | 0.020\* | 0.103 |
| 212 | Other bone disease and musculoskeletal deformities |  | 189,225 |  | 0.13 (-0.24, 0.50) | 0.488 | 0.700 |  | 0.32 (-0.13, 0.76) | 0.162 | 0.408 |

Results are presented as point estimates and 95% CIs of the percentage increase in daily hospital admissions associated with a 10-μg/m3 increase in PM2.5. Minor disease categories are based on the Clinical Classifications Software (CCS). The 3-day moving average exposure (lag 0-2) was used as the exposure metric of PM2.5. In single-pollutant models, the effects of PM2.5 were estimated without adjustment for co-pollutants; in two-pollutant models, the effects of PM2.5 were estimated after adjustment for O3. The Benjamini-Hochberg procedure was applied to adjust the *P* values across 188 minor disease categories; both unadjusted and adjusted *P* values are reported.

\* Statistically significant estimate (*P* < 0.05).