# 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 per10-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).