eTable 1. AMI Occurrence and Change in Apparent Temperature by Modifying Characteristics

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Cold Months a | | | | Warm Months b | | | |
|  | HR c | 95 % CI | | *P* interaction | HR d | 95 % CI | | *P* interaction |
| ≥ 65 years old | 1.11 | 0.95 | 1.31 | 0.095 | 0.96 | 0.76 | 1.21 | 0.907 |
| < 65 years old | 1.24 | 0.97 | 1.57 |  | 1.24 | 0.89 | 1.73 |  |
| Male | 1.18 | 0.99 | 1.42 | 0.814 | 1.07 | 0.84 | 1.37 | 0.624 |
| Female | 1.10 | 0.90 | 1.35 |  | 1.00 | 0.75 | 1.34 |  |
| Non-white race | 1.10 | 0.63 | 1.93 | 0.585 | 1.51 | 0.76 | 3.01 | 0.754 |
| White race | 1.14 | 0.99 | 1.31 |  | 1.02 | 0.83 | 1.24 |  |
| Angina | 1.32 | 0.99 | 1.75 | 0.353 | 1.05 | 0.68 | 1.62 | 0.541 |
| No angina | 1.10 | 0.95 | 1.28 |  | 1.04 | 0.84 | 1.28 |  |
| Diabetes mellitus | 1.28 | 1.01 | 1.64 | 0.107 | 1.06 | 0.75 | 1.49 | 0.355 |
| No diabetes mellitus | 1.09 | 0.93 | 1.28 |  | 1.04 | 0.83 | 1.30 |  |
| Family history of CHD | 1.35 | 1.06 | 1.72 | 0.125 | 1.11 | 0.80 | 1.55 | 0.694 |
| No family history of CHD | 1.15 | 0.96 | 1.38 |  | 1.04 | 0.81 | 1.33 |  |
| Q-Wave AMI | 1.15 | 0.90 | 1.47 | 0.994 | 1.13 | 0.79 | 1.61 | 0.480 |
| Non-Q-Wave AMI | 1.15 | 0.98 | 1.35 |  | 1.01 | 0.81 | 1.26 |  |
| Current smoker | 1.15 | 0.85 | 1.57 | 0.942 | 1.23 | 0.81 | 1.86 | 0.514 |
| Non-smoker | 1.24 | 1.05 | 1.46 |  | 1.02 | 0.82 | 1.28 |  |
| Hypertension | 1.01 | 0.85 | 1.19 | 0.122 | 0.95 | 0.75 | 1.20 | 0.473 |
| No hypertension | 1.48 | 1.17 | 1.86 |  | 1.23 | 0.89 | 1.69 |  |
| Stroke | 1.32 | 0.89 | 1.94 | 0.808 | 0.73 | 0.40 | 1.34 | 0.169 |
| No stroke | 1.13 | 0.98 | 1.30 |  | 1.08 | 0.89 | 1.32 |  |
| Median household Income > $34,674 | 1.26 | 0.96 | 1.67 | 0.150 | 1.07 | 0.73 | 1.58 | 0.289 |
| Median household Income ≤ $34,674 | 1.12 | 0.96 | 1.30 |  | 1.03 | 0.83 | 1.29 |  |
| ≥ 14 % households in poverty | 1.23 | 0.94 | 1.63 | 0.144 | 1.04 | 0.70 | 1.55 | 0.170 |
| < 14% households in poverty | 1.12 | 0.96 | 1.31 |  | 1.04 | 0.84 | 1.30 |  |
| ≥ 7% recreation / conservation area | 1.10 | 0.91 | 1.34 | 0.409 | 1.06 | 0.81 | 1.38 | 0.653 |
| < 7% recreation / conservation area | 1.20 | 0.99 | 1.45 |  | 1.02 | 0.78 | 1.35 |  |
| First MI | 1.04 | 0.89 | 1.22 | 0.003 | 1.04 | 0.83 | 1.30 | 0.775 |
| Recurrent MI | 1.46 | 1.14 | 1.87 |  | 1.05 | 0.73 | 1.50 |  |
| Atrial fibrillation | 0.93 | 0.68 | 1.26 | 0.506 | 1.06 | 0.68 | 1.64 | 0.783 |
| No atrial fibrillation | 1.20 | 1.04 | 1.40 |  | 1.04 | 0.84 | 1.28 |  |
| Cardiogenic shock | 0.75 | 0.46 | 1.22 | 0.187 | 0.84 | 0.36 | 1.97 | 0.121 |
| No cardiogenic shock | 1.19 | 1.03 | 1.37 |  | 1.05 | 0.87 | 1.28 |  |
| Congestive heart failure | 1.08 | 0.88 | 1.34 | 0.434 | 0.93 | 0.68 | 1.28 | 0.779 |
| No congestive heart failure | 1.20 | 1.01 | 1.42 |  | 1.10 | 0.87 | 1.39 |  |
| Lives within 400 m of large water body | 0.90 | 0.63 | 1.28 | 0.020 | 1.05 | 0.63 | 1.75 | 0.605 |
| Lives greater than 400 m of large water body | 1.20 | 1.04 | 1.39 |  | 1.04 | 0.85 | 1.28 |  |
| Elevation >202 m | 1.05 | 0.79 | 1.38 | 0.377 | 1.07 | 0.68 | 1.66 | 0.897 |
| Elevation ≤ 202 m | 1.18 | 1.01 | 1.38 |  | 1.04 | 0.84 | 1.28 |  |
| NDVI ≥ 202.1 | 1.06 | 0.88 | 1.27 | 0.254 | 1.22 | 0.93 | 1.59 | 0.287 |
| NDVI < 202.1 | 1.22 | 1.01 | 1.48 |  | 0.89 | 0.68 | 1.17 |  |
| Building construction before 1958 | 1.20 | 0.99 | 1.45 | 0.372 | 1.08 | 0.82 | 1.42 | 0.233 |
| Building construction 1958 or later | 1.08 | 0.89 | 1.30 |  | 1.01 | 0.78 | 1.32 |  |
| Density ≥ 1000 units/km2 | 1.23 | 0.89 | 1.69 | 0.110 | 1.20 | 0.77 | 1.89 | 0.196 |
| Density < 1000 units/km2 | 1.12 | 0.96 | 1.30 |  | 1.02 | 0.82 | 1.25 |  |
| More than 4 units in building ≥ 5% | 1.12 | 0.93 | 1.36 | 0.279 | 0.91 | 0.69 | 1.19 | 0.791 |
| More than 4 units in building < 5% | 1.16 | 0.96 | 1.40 |  | 1.20 | 0.92 | 1.56 |  |

a January, February, March, November and December

b April, May, June, July, August, September, October

c Hazard Ratio for an IQR decrease in apparent temperature. The IQR for cold months was 6.6°C. Models adjusted for day of week, PM2.5, and absolute humidity

d Hazard Ratio for an IQR increase in apparent temperature. The IQR for warm months was 12.3°C. Models adjusted for day of week, PM2.5, ozone, and absolute humidity

eTable 2. Mortality and Change in Apparent Temperature by Modifying Characteristic

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Cold Months a | | | | Warm Months b | | | |
|  | HR c | 95 % CI | | *P* interaction | HR d | 95 % CI | | *P* interaction |
| ≥ 65 years old | 0.93 | 0.78 | 1.10 | 0.704 | 0.86 | 0.64 | 1.14 | 0.018 |
| < 65 years old | 0.97 | 0.60 | 1.55 |  | 1.32 | 0.65 | 2.68 |  |
| Male | 0.88 | 0.70 | 1.11 | 0.788 | 0.97 | 0.66 | 1.42 | 0.188 |
| Female | 0.98 | 0.78 | 1.24 |  | 0.87 | 0.60 | 1.27 |  |
| Non-white race | 0.90 | 0.40 | 2.06 | 0.636 | 0.76 | 0.24 | 2.34 | 0.841 |
| White race | 0.94 | 0.79 | 1.11 |  | 0.92 | 0.70 | 1.22 |  |
| Angina | 1.08 | 0.77 | 1.53 | 0.876 | 0.85 | 0.50 | 1.45 | 0.517 |
| No angina | 0.90 | 0.75 | 1.08 |  | 0.94 | 0.69 | 1.29 |  |
| Diabetes mellitus | 0.82 | 0.63 | 1.06 | 0.141 | 0.84 | 0.54 | 1.31 | 0.392 |
| No diabetes mellitus | 1.02 | 0.83 | 1.25 |  | 0.96 | 0.69 | 1.34 |  |
| Family history of CHD | 1.01 | 0.69 | 1.48 | 0.718 | 0.73 | 0.39 | 1.36 | 0.602 |
| No family history of CHD | 0.86 | 0.70 | 1.07 |  | 0.99 | 0.71 | 1.38 |  |
| Q-Wave AMI | 0.73 | 0.53 | 1.00 | 0.693 | 1.61 | 0.92 | 2.82 | 0.022 |
| Non-Q-Wave AMI | 1.02 | 0.85 | 1.24 |  | 0.79 | 0.58 | 1.06 |  |
| Current smoker | 1.33 | 0.80 | 2.22 | 0.176 | 0.59 | 0.27 | 1.26 | 0.440 |
| Non-smoker | 0.85 | 0.69 | 1.04 |  | 0.99 | 0.72 | 1.36 |  |
| Hypertension | 0.87 | 0.72 | 1.06 | 0.867 | 0.84 | 0.61 | 1.16 | 0.591 |
| No hypertension | 1.11 | 0.83 | 1.50 |  | 1.13 | 0.69 | 1.84 |  |
| Stroke | 0.78 | 0.53 | 1.16 | 0.415 | 2.04 | 1.05 | 3.96 | 0.567 |
| No stroke | 0.97 | 0.81 | 1.16 |  | 0.79 | 0.59 | 1.06 |  |
| Median household Income > $34,674 | 0.99 | 0.71 | 1.39 | 0.280 | 1.03 | 0.63 | 1.69 | 0.219 |
| Median household Income ≤ $34,674 | 0.90 | 0.75 | 1.08 |  | 0.84 | 0.61 | 1.15 |  |
| ≥ 14 % households in poverty | 0.79 | 0.57 | 1.09 | 0.902 | 1.22 | 0.74 | 2.01 | 0.026 |
| < 14 % households in poverty | 0.97 | 0.80 | 1.17 |  | 0.79 | 0.57 | 1.08 |  |
| ≥ 7% recreation / conservation area | 0.90 | 0.72 | 1.14 | 0.882 | 1.02 | 0.69 | 1.51 | 0.935 |
| < 7% recreation/conservation area | 0.93 | 0.74 | 1.18 |  | 0.78 | 0.54 | 1.14 |  |
| First MI | 0.83 | 0.68 | 1.02 | 0.534 | 0.76 | 0.54 | 1.07 | 0.071 |
| Recurrent MI | 1.14 | 0.87 | 1.48 |  | 1.27 | 0.82 | 1.97 |  |
| Atrial fibrillation | 0.80 | 0.57 | 1.11 | 0.677 | 0.64 | 0.36 | 1.15 | 0.366 |
| No atrial fibrillation | 0.99 | 0.82 | 1.19 |  | 1.01 | 0.75 | 1.37 |  |
| Cardiogenic shock | 1.04 | 0.60 | 1.79 | 0.308 | 0.86 | 0.36 | 2.05 | 0.225 |
| No cardiogenic shock | 0.93 | 0.78 | 1.10 |  | 0.93 | 0.70 | 1.23 |  |
| Congestive heart failure | 0.97 | 0.77 | 1.22 | 0.115 | 1.05 | 0.73 | 1.51 | 0.726 |
| No congestive heart failure | 0.90 | 0.72 | 1.13 |  | 0.80 | 0.55 | 1.19 |  |
| Lives within 400 m of large water body | 1.30 | 0.84 | 2.00 | 0.631 | 0.74 | 0.35 | 1.56 | 0.079 |
| Lives greater than 400 m of large water body | 0.87 | 0.73 | 1.04 |  | 0.92 | 0.69 | 1.23 |  |
| Elevation >202 m | 0.82 | 0.57 | 1.18 | 0.347 | 1.67 | 0.87 | 3.18 | 0.175 |
| Elevation ≤ 202 m | 0.95 | 0.79 | 1.14 |  | 0.79 | 0.58 | 1.06 |  |
| NDVI ≥ 202.1 | 0.91 | 0.72 | 1.15 | 0.872 | 0.93 | 0.63 | 1.37 | 0.466 |
| NDVI < 202.1 | 0.94 | 0.75 | 1.17 |  | 0.90 | 0.63 | 1.30 |  |
| Building construction before 1958 | 0.86 | 0.68 | 1.07 | 0.574 | 0.78 | 0.53 | 1.14 | 0.500 |
| Building construction 1958 or later | 1.01 | 0.80 | 1.28 |  | 1.07 | 0.73 | 1.56 |  |
| Density ≥ 1000 units/km2 | 0.87 | 0.61 | 1.25 | 0.924 | 1.38 | 0.78 | 2.44 | 0.192 |
| Density < 1000 units/km2 | 0.94 | 0.79 | 1.13 |  | 0.82 | 0.61 | 1.11 |  |
| More than 4 units in building ≥ 5% | 0.93 | 0.75 | 1.17 | 0.488 | 0.92 | 0.64 | 1.33 | 0.862 |
| More than 4 units in building < 5% | 0.91 | 0.72 | 1.16 |  | 0.90 | 0.61 | 1.34 |  |

a January, February, March, November and December

b April, May, June, July, August, September, October

c Hazard Ratio for an IQR decrease in apparent temperature. The IQR for cold months was 6.6°C. Models adjusted for day of week, PM2.5, and absolute humidity

d Hazard Ratio for an IQR increase in apparent temperature. The IQR for warm months was 12.3°C. Models adjusted for day of week, PM2.5, ozone, and absolute humidity

eTable 3. AMI Occurence and Extremea Temperature by Modifying Characteristic

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Cold Months b | | | | Warm Months c | | | |
|  | HR d | 95 % CI | | *P* interaction | HR e | 95 % CI | | *P* interaction |
| ≥ 65 years old | 1.35 | 0.99 | 1.83 | 0.837 | 0.93 | 0.69 | 1.26 | 0.745 |
| < 65 years old | 1.39 | 0.93 | 2.06 |  | 0.93 | 0.61 | 1.42 |  |
| Male | 1.22 | 0.88 | 1.69 | 0.203 | 0.86 | 0.62 | 1.19 | 0.294 |
| Female | 1.59 | 1.10 | 2.28 |  | 1.03 | 0.71 | 1.50 |  |
| Non-white race | 1.59 | 0.77 | 3.30 | 0.643 | 1.36 | 0.55 | 3.36 | 0.579 |
| White race | 1.27 | 0.98 | 1.66 |  | 0.88 | 0.68 | 1.14 |  |
| Angina | 1.42 | 0.88 | 2.29 | 0.937 | 0.92 | 0.54 | 1.54 | 0.838 |
| No angina | 1.35 | 1.02 | 1.79 |  | 0.94 | 0.71 | 1.24 |  |
| Diabetes mellitus | 1.30 | 0.84 | 2.01 | 0.853 | 1.18 | 0.77 | 1.80 | 0.078 |
| No diabetes mellitus | 1.39 | 1.04 | 1.86 |  | 0.83 | 0.62 | 1.13 |  |
| Family history of CHD | 1.51 | 0.98 | 2.34 | 0.417 | 0.95 | 0.61 | 1.46 | 0.711 |
| No family history of CHD | 1.19 | 0.81 | 1.74 |  | 1.10 | 0.79 | 1.53 |  |
| Q-Wave AMI | 1.42 | 0.90 | 2.25 | 0.831 | 0.92 | 0.56 | 1.49 | 0.731 |
| Non-Q-Wave AMI | 1.34 | 1.01 | 1.79 |  | 0.93 | 0.70 | 1.23 |  |
| Current smoker | 0.98 | 0.50 | 1.90 | 0.258 | 1.30 | 0.73 | 2.33 | 0.948 |
| Non-smoker | 1.43 | 1.04 | 1.96 |  | 0.99 | 0.73 | 1.33 |  |
| Hypertension | 1.22 | 0.88 | 1.68 | 0.224 | 0.89 | 0.66 | 1.20 | 0.800 |
| No hypertension | 1.59 | 1.10 | 2.30 |  | 1.00 | 0.65 | 1.52 |  |
| Stroke | 2.07 | 1.05 | 4.07 | 0.290 | 1.06 | 0.50 | 2.24 | 0.883 |
| No stroke | 1.29 | 0.99 | 1.67 |  | 0.92 | 0.71 | 1.19 |  |
| Median household Income > $34,674 | 1.29 | 0.81 | 2.06 | 0.951 | 1.14 | 0.72 | 1.80 | 0.242 |
| Median household Income ≤ $34,674 | 1.41 | 1.06 | 1.89 |  | 0.85 | 0.63 | 1.14 |  |
| ≥ 14 % households in poverty | 1.42 | 0.89 | 2.26 | 0.654 | 1.39 | 0.90 | 2.14 | 0.012 |
| < 14 % households in poverty | 1.37 | 1.03 | 1.82 |  | 0.77 | 0.57 | 1.04 |  |
| ≥ 7% recreation / conservation area | 1.35 | 0.96 | 1.88 | 0.746 | 0.95 | 0.67 | 1.35 | 0.622 |
| < 7% recreation/conservation area | 1.42 | 1.00 | 2.04 |  | 0.89 | 0.63 | 1.27 |  |
| First MI | 1.31 | 0.97 | 1.78 | 0.497 | 0.86 | 0.64 | 1.16 | 0.247 |
| Recurrent MI | 1.42 | 0.95 | 2.12 |  | 1.11 | 0.72 | 1.71 |  |
| Atrial fibrillation | 1.48 | 0.85 | 2.56 | 0.707 | 1.48 | 0.87 | 2.54 | 0.120 |
| No atrial fibrillation | 1.34 | 1.02 | 1.75 |  | 0.83 | 0.63 | 1.10 |  |
| Cardiogenic shock | 1.12 | 0.35 | 3.54 | 0.664 | 1.06 | 0.38 | 3.02 | 0.614 |
| No cardiogenic shock | 1.37 | 1.07 | 1.76 |  | 0.93 | 0.72 | 1.19 |  |
| Congestive heart failure | 1.14 | 0.77 | 1.69 | 0.413 | 0.77 | 0.50 | 1.18 | 0.412 |
| No congestive heart failure | 1.52 | 1.11 | 2.06 |  | 1.03 | 0.77 | 1.38 |  |
| Lives within 400 m of large water body | 1.67 | 0.88 | 3.15 | 0.626 | 1.36 | 0.75 | 2.48 | 0.064 |
| Lives greater than 400 m of large water body | 1.34 | 1.03 | 1.74 |  | 0.85 | 0.65 | 1.12 |  |
| Elevation >202 m | 1.31 | 0.76 | 2.26 | 0.754 | 0.85 | 0.47 | 1.53 | 0.729 |
| Elevation ≤ 202 m | 1.40 | 1.06 | 1.84 |  | 0.94 | 0.71 | 1.23 |  |
| NDVI ≥ 202.1 | 1.32 | 0.94 | 1.85 | 0.624 | 0.86 | 0.61 | 1.21 | 0.862 |
| NDVI < 202.1 | 1.41 | 0.99 | 2.02 |  | 0.99 | 0.69 | 1.41 |  |
| Building construction before 1958 | 1.51 | 1.06 | 2.15 | 0.415 | 1.11 | 0.79 | 1.56 | 0.476 |
| Building construction 1958 or later | 1.25 | 0.89 | 1.75 |  | 0.77 | 0.54 | 1.10 |  |
| Density ≥ 1000 units/km2 | 1.34 | 0.77 | 2.32 | 0.893 | 1.48 | 0.88 | 2.49 | 0.023 |
| Density < 1000 units/km2 | 1.38 | 1.05 | 1.81 |  | 0.81 | 0.61 | 1.08 |  |
| More than 4 units in building ≥ 5% | 1.41 | 1.00 | 1.98 | 0.576 | 0.92 | 0.65 | 1.29 | 0.687 |
| More than 4 units in building < 5% | 1.31 | 0.93 | 1.87 |  | 0.93 | 0.65 | 1.32 |  |

a Extreme temperature days were those when the apparent temperature for that averaging periods was in the upper 5th percentile of all temperatures during the warm season or in the lower 5th percentile of all temperatures during the cold season.

b January, February, March, November and December

c April, May, June, July, August, September, October

d Hazard Ratio comparing days when temperatures were in the lowest 5th percentile to other days. Models adjusted for day of week, PM2.5, and absolute humidity.

e Hazard Ratio comparing days when temperatures were in the highest 5th percentile to other days. Models adjusted for day of week, PM2.5, and absolute humidity.

eTable 4. Mortality and Extremea Temperature by Modifying Characteristic

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Cold Months b | | | | Warm Months c | | | |
|  | HR d | 95 % CI | | *P* interaction | HR e | 95 % CI | | *P* interaction |
| ≥ 65 years old | 1.02 | 0.70 | 1.48 | 0.507 | 1.42 | 1.01 | 1.99 | 0.512 |
| < 65 years old | 0.72 | 0.29 | 1.80 |  | 1.54 | 0.70 | 3.38 |  |
| Male | 0.66 | 0.39 | 1.13 | 0.058 | 1.70 | 1.10 | 2.61 | 0.239 |
| Female | 1.36 | 0.86 | 2.17 |  | 1.23 | 0.78 | 1.93 |  |
| Non-white race | 2.90 | 0.63 | 13.28 | 0.170 | 5.95 | 1.81 | 19.52 | 0.058 |
| White race | 0.87 | 0.60 | 1.26 |  | 1.34 | 0.96 | 1.85 |  |
| Angina | 1.25 | 0.62 | 2.49 | 0.472 | 0.89 | 0.46 | 1.75 | 0.332 |
| No angina | 0.89 | 0.60 | 1.34 |  | 1.66 | 1.17 | 2.36 |  |
| Diabetes mellitus | 0.73 | 0.37 | 1.42 | 0.271 | 1.17 | 0.69 | 1.98 | 0.672 |
| No diabetes mellitus | 1.08 | 0.72 | 1.64 |  | 1.63 | 1.11 | 2.39 |  |
| Family history of CHD | 1.17 | 0.54 | 2.51 | 0.706 | 1.33 | 0.64 | 2.74 | 0.379 |
| No family history of CHD | 0.93 | 0.56 | 1.54 |  | 1.86 | 1.29 | 2.70 |  |
| Q-Wave AMI | 0.39 | 0.13 | 1.12 | 0.073 | 0.88 | 0.44 | 1.76 | 0.224 |
| Non-Q-Wave AMI | 1.13 | 0.78 | 1.64 |  | 1.65 | 1.17 | 2.34 |  |
| Current smoker | 0.18 | 0.02 | 1.35 | 0.087 | 2.20 | 0.99 | 4.91 | 0.782 |
| Non-smoker | 1.17 | 0.76 | 1.82 |  | 1.64 | 1.14 | 2.35 |  |
| Hypertension | 0.85 | 0.55 | 1.33 | 0.542 | 1.19 | 0.82 | 1.73 | 0.095 |
| No hypertension | 1.19 | 0.68 | 2.08 |  | 2.24 | 1.29 | 3.89 |  |
| Stroke | 1.42 | 0.62 | 3.24 | 0.350 | 1.52 | 0.64 | 3.59 | 0.638 |
| No stroke | 0.90 | 0.61 | 1.32 |  | 1.42 | 1.02 | 1.98 |  |
| Median household Income > $34,674 | 0.74 | 0.35 | 1.56 | 0.674 | 1.00 | 0.55 | 1.81 | 0.428 |
| Median household Income ≤ $34,674 | 0.96 | 0.63 | 1.44 |  | 1.59 | 1.09 | 2.31 |  |
| ≥ 14 % households in poverty | 0.77 | 0.38 | 1.55 | 0.655 | 1.12 | 0.62 | 2.03 | 0.883 |
| < 14 % households in poverty | 0.96 | 0.63 | 1.45 |  | 1.50 | 1.04 | 2.18 |  |
| ≥ 7% recreation / conservation area | 1.07 | 0.67 | 1.72 | 0.312 | 1.39 | 0.88 | 2.21 | 0.807 |
| < 7% recreation/conservation area | 0.72 | 0.41 | 1.25 |  | 1.36 | 0.88 | 2.09 |  |
| First MI | 0.83 | 0.53 | 1.31 | 0.373 | 1.77 | 1.21 | 2.59 | 0.240 |
| Recurrent MI | 1.24 | 0.72 | 2.14 |  | 0.98 | 0.58 | 1.68 |  |
| Atrial fibrillation | 0.64 | 0.30 | 1.36 | 0.261 | 1.51 | 0.80 | 2.86 | 0.810 |
| No atrial fibrillation | 1.09 | 0.74 | 1.62 |  | 1.42 | 1.00 | 2.02 |  |
| Cardiogenic shock | 1.24 | 0.40 | 3.87 | 0.492 | 1.21 | 0.37 | 4.00 | 0.958 |
| No cardiogenic shock | 0.94 | 0.66 | 1.36 |  | 1.49 | 1.08 | 2.06 |  |
| Congestive heart failure | 1.03 | 0.62 | 1.71 | 0.988 | 0.92 | 0.58 | 1.47 | 0.011 |
| No congestive heart failure | 0.91 | 0.56 | 1.46 |  | 2.15 | 1.41 | 3.26 |  |
| Lives within 400 m of large water body | 1.16 | 0.49 | 2.75 | 0.570 | 1.28 | 0.56 | 2.94 | 0.411 |
| Lives greater than 400 m of large water body | 0.85 | 0.57 | 1.26 |  | 1.42 | 1.01 | 2.00 |  |
| Elevation >202 m | 1.43 | 0.63 | 3.26 | 0.159 | 1.61 | 0.79 | 3.30 | 0.612 |
| Elevation ≤ 202 m | 0.82 | 0.55 | 1.22 |  | 1.34 | 0.95 | 1.91 |  |
| NDVI ≥ 202.1 | 0.75 | 0.43 | 1.28 | 0.302 | 1.99 | 1.29 | 3.07 | 0.122 |
| NDVI < 202.1 | 1.09 | 0.68 | 1.74 |  | 1.00 | 0.63 | 1.58 |  |
| Building construction before 1958 | 1.05 | 0.64 | 1.69 | 0.464 | 1.23 | 0.78 | 1.92 | 0.778 |
| Building construction 1958 or later | 0.79 | 0.47 | 1.34 |  | 1.61 | 1.04 | 2.50 |  |
| Density ≥ 1000 units/km2 | 0.68 | 0.29 | 1.59 | 0.534 | 0.80 | 0.38 | 1.70 | 0.147 |
| Density < 1000 units/km2 | 0.98 | 0.67 | 1.45 |  | 1.60 | 1.13 | 2.26 |  |
| More than 4 units in building ≥ 5% | 0.73 | 0.43 | 1.24 | 0.330 | 1.05 | 0.66 | 1.66 | 0.133 |
| More than 4 units in building < 5% | 1.12 | 0.69 | 1.81 |  | 1.85 | 1.20 | 2.84 |  |

a Extreme temperature days were those when the apparent temperature for that averaging periods was in the upper 5th percentile of all temperatures during the warm season or in the lower 5th percentile of all temperatures during the cold season.

b January, February, March, November and December

c April, May, June, July, August, September, October

d Hazard Ratio comparing days when temperatures were in the lowest 5th percentile to other days. Models adjusted for day of week, PM2.5, and absolute humidity.

e Hazard Ratio comparing days when temperatures were in the highest 5th percentile to other days. Models adjusted for day of week, PM2.5, and absolute humidity.

eTable 5. Occurrence of Acute MI and All-Cause Mortality with Continuous and Extremes of Apparent Temperature

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Cold Months a | | | Warm Months b | | |
|  |  | HR c | 95 % CI | | HR d | 95 % CI | |
| Occurrence of AMI |  |  |  |  |  |  |  |
| Same day | Continuous Apparent Temperature | 1.12 | 0.98 | 1.29 | 1.04 | 0.86 | 1.26 |
|  | Extreme TemperatureIndicator | 1.17 | 0.93 | 1.47 | 1.07 | 0.85 | 1.33 |
| 2 day average (Lag0 – Lag1) | Continuous Apparent Temperature | 1.07 | 0.94 | 1.22 | 1.12 | 0.92 | 1.35 |
|  | Extreme TemperatureIndicator | 1.33 | 1.04 | 1.70 | 0.92 | 0.72 | 1.18 |
| 3 day average (Lag0 – Lag2) | Continuous Apparent Temperature | 1.08 | 0.95 | 1.22 | 1.12 | 0.93 | 1.34 |
|  | Extreme TemperatureIndicator | 1.07 | 0.81 | 1.42 | 1.07 | 0.83 | 1.39 |
| 4 day average (Lag0 – Lag3) | Continuous Apparent Temperature | 1.08 | 0.95 | 1.23 | 1.07 | 0.89 | 1.27 |
|  | Extreme TemperatureIndicator | 1.00 | 0.75 | 1.33 | 1.01 | 0.76 | 1.34 |
| 5 day average (Lag0 – Lag4) | Continuous Apparent Temperature | 1.10 | 0.97 | 1.26 | 0.98 | 0.82 | 1.17 |
|  | Extreme TemperatureIndicator | 0.98 | 0.71 | 1.33 | 1.21 | 0.89 | 1.64 |
| 6 day average (Lag0 – Lag5) | Continuous Apparent Temperature | 1.11 | 0.97 | 1.27 | 0.95 | 0.79 | 1.14 |
|  | Extreme TemperatureIndicator | 1.01 | 0.74 | 1.39 | 3.82 | 0.05 | 273.99 |
|  |  |  |  |  |  |  |  |
| All Cause Mortality |  |  |  |  |  |  |  |
| Same day | Continuous Apparent Temperature | 0.93 | 0.79 | 1.10 | 0.91 | 0.70 | 1.19 |
|  | Extreme TemperatureIndicator | 1.05 | 0.76 | 1.45 | 1.29 | 0.97 | 1.73 |
| 2 day average (Lag0 – Lag1) | Continuous Apparent Temperature | 1.00 | 0.85 | 1.18 | 0.86 | 0.65 | 1.13 |
|  | Extreme TemperatureIndicator | 0.97 | 0.68 | 1.38 | 1.46 | 1.07 | 1.99 |
| 3 day average (Lag0 – Lag2) | Continuous Apparent Temperature | 1.02 | 0.87 | 1.19 | 0.84 | 0.65 | 1.08 |
|  | Extreme TemperatureIndicator | 1.09 | 0.76 | 1.57 | 1.40 | 1.00 | 1.96 |
| 4 day average (Lag0 – Lag3) | Continuous Apparent Temperature | 1.06 | 0.90 | 1.24 | 0.80 | 0.62 | 1.02 |
|  | Extreme TemperatureIndicator | 1.17 | 0.81 | 1.69 | 1.51 | 1.06 | 2.14 |
| 5 day average (Lag0 – Lag4) | Continuous Apparent Temperature | 1.11 | 0.94 | 1.31 | 0.82 | 0.64 | 1.05 |
|  | Extreme TemperatureIndicator | 1.13 | 0.77 | 1.65 | 1.30 | 0.86 | 1.96 |
| 6 day average (Lag0 – Lag5) | Continuous Apparent Temperature | 1.13 | 0.95 | 1.34 | 0.85 | 0.66 | 1.09 |
|  | Extreme TemperatureIndicator | 1.29 | 0.88 | 1.88 | 1.38 | 0.89 | 2.14 |

a January, February, March, November and December

b April, May, June, July, August, September, October

c Hazard Ratio for an IQR decrease in apparent temperature. The IQR for cold months was 6.6°C. Models adjusted for day of week, PM2.5, and absolute humidity

d Hazard Ratio for an IQR increase in apparent temperature. The IQR for warm months was 12.3°C. Models adjusted for day of week, PM2.5, ozone, and absolute humidity

eTable 6. Occurrence of Acute MI and All-Cause Mortality with an Interquartile Range (IQR) Change in Mean Temperature

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Cold Months a | | | Warm Months b | | |
|  | HR c | 95 % CI | | HR d | 95 % CI | |
| Occurrence of AMI |  |  |  |  |  |  |
| Same day | 1.03 | 0.96 | 1.12 | 1.02 | 0.94 | 1.10 |
| 2 day average (Lag0 – Lag1) | 1.02 | 0.95 | 1.10 | 1.05 | 0.97 | 1.14 |
| 3 day average (Lag0 – Lag2) | 1.02 | 0.95 | 1.09 | 1.05 | 0.97 | 1.14 |
| 4 day average (Lag0 – Lag3) | 1.02 | 0.96 | 1.10 | 1.03 | 0.94 | 1.12 |
| 5 day average (Lag0 – Lag4) | 1.04 | 0.97 | 1.12 | 1.00 | 0.92 | 1.09 |
| 6 day average (Lag0 – Lag5) | 1.05 | 0.98 | 1.13 | 0.98 | 0.90 | 1.07 |
|  |  |  |  |  |  |  |
| All Cause Mortality |  |  |  |  |  |  |
| Same day | 1.01 | 0.92 | 1.11 | 0.95 | 0.85 | 1.06 |
| 2 day average (Lag0 – Lag1) | 1.03 | 0.94 | 1.13 | 0.94 | 0.84 | 1.06 |
| 3 day average (Lag0 – Lag2) | 1.04 | 0.95 | 1.13 | 0.95 | 0.84 | 1.06 |
| 4 day average (Lag0 – Lag3) | 1.06 | 0.97 | 1.15 | 0.93 | 0.82 | 1.05 |
| 5 day average (Lag0 – Lag4) | 1.09 | 0.99 | 1.19 | 0.92 | 0.81 | 1.04 |
| 6 day average (Lag0 – Lag5) | 1.11 | 1.01 | 1.22 | 0.93 | 0.82 | 1.05 |

a January, February, March, November and December

b April, May, June, July, August, September, October

c Hazard Ratio for an IQR decrease in mean temperature. The IQR for cold months was 8.06°C. Models adjusted for day of week, PM2.5, and absolute humidity

d Hazard Ratio for an IQR increase in mean temperature. The IQR for warm months was 9.44°C. Models adjusted for day of week, PM2.5, ozone, and absolute humidity