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| **Supplemental Table 1.** Wind chill Temperature and Air Temperature Effects by Cardiovascular Disease Subtypes in Lag 6 from November to March, 2005 – 2013, New York State |
|  | HypertensionOR \* (95% CI †) | IHDOR \* (95% CI †) | DysrhythmiasOR \* (95% CI †) | CDOR \* (95% CI †) | Other CVD ‡OR \* (95% CI †) |
| **Wind Chill** |  |  |  |  |  |
| -34.4°C (-30°F) ─ | 0.51(0.11,2.27) | 2.30(1.00,5.30) | 1.08(0.41,2.86) | ─ | 5.05(0.45,57.11) |
| -31.6°C (-25°F) ─ | 0.92(0.49,1.73) | 0.71(0.37,1.37) | 0.54(0.27,1.09) | 1.32(0.39,4.51) | 3.32(1.26,8.72) |
| -28.8°C (-20°F) ─ | 1.32(0.98,1.78) | 1.17(0.87,1.58) | 1.29(0.98,1.70) | 0.46(0.18,1.18) | 1.02(0.63,1.64) |
| -26.1 °C (-15°F) ─ | 1.17(1.02,1.35) | 1.16(0.99,1.36) | 1.10(0.96,1.27) | 0.95(0.72,1.26) | 1.05(0.84,1.31) |
| -23.3°C (-10°F) ─ | 1.07(0.98,1.17) | 1.00(0.91,1.10) | 0.98(0.89,1.07) | 1.19(1.00,1.40) | 0.96(0.83,1.11) |
| -20.5°C (-5°F) ─ | 0.98(0.93,1.04) | 1.05(0.99,1.12) | 1.00(0.94,1.06) | 0.97(0.87,1.09) | 1.01(0.92,1.11) |
| -17.7°C (0°F) ─ | 1.10(1.07,1.14) | 1.05(1.01,1.09) | 1.05(1.01,1.09) | 1.05(0.97,1.13) | 1.10(1.03,1.18) |
| -15°C (5°F) ─ | 1.03(1.00,1.06) | 1.07(1.03,1.10) | 0.99(0.96,1.03) | 1.00(0.94,1.06) | 1.02(0.97,1.08) |
| -12.2°C (10°F) - | 1.08(1.05,1.1) | 1.04(1.01,1.07) | 1.05(1.02,1.08) | 1.05(0.99,1.10) | 1.03(0.98,1.08) |
|  -9.4°C (15°F) ─ | 1.02(1.00,1.04) | 1.01(0.98,1.03) | 1.01(0.99,1.03) | 0.99(0.95,1.03) | 1.05(1.01,1.09) |
| -6.6°C (20°F) ─ | 0.94(0.92,0.95) | 0.97(0.94,0.99) | 0.98(0.96,1.00) | 0.99(0.95,1.03) | 0.98(0.94,1.01) |
| -3.8°C (25°F ) ─ | 1.00(Referent) | 1.00(Referent) | 1.00(Referent) | 1.00(Referent) | 1.00(Referent) |
|  |  |  |  |  |  |
| **Air Temperature** |  |  |  |  |  |
| -23.3°C (-10°F) ─ | 0.44(0.19,1.02) | 1.71(0.97,3.00) | 1.20(0.65,2.19) | 0.27(0.04,2.07) | 0.70(0.20,2.40) |
| -20.5°C (-5°F) ─ | 1.10(0.72,1.68) | 0.64(0.41,1.01) | 0.86(0.60,1.23) | 0.69(0.30,1.59) | 1.55(0.94,2.55) |
| 17.7°C (0°F) ─ | 1.09(0.92,1.29) | 1.16(0.96,1.39) | 1.21(1.04,1.42) | 0.97(0.67,1.40) | 0.88(0.64,1.20) |
| -15°C (5°F) ─ | 1.13(1.03,1.23) | 0.99(0.90,1.10) | 0.96(0.87,1.06) | 1.22(1.02,1.45) | 1.06(0.91,1.23) |
| -12.2°C (10°F) ─ | 1.04(0.98,1.09) | 1.06(0.99,1.12) | 0.97(0.91,1.03) | 1.01(0.90,1.13) | 1.04(0.94,1.14) |
| -9.4°C (15°F) ─ | 1.01(0.98,1.05) | 0.99(0.95,1.04) | 1.00(0.96,1.05) | 1.03(0.96,1.11) | 1.12(1.05,1.19) |
| -6.6°C (20°F) ─ | 1.04(1.02,1.06) | 1.02(0.99,1.05) | 0.99(0.96,1.02) | 0.97(0.92,1.02) | 1.04(0.99,1.09) |
| -3.8°C (25°F) ─ | 1.07(1.05,1.09) | 1.01(0.99,1.04) | 1.03(1.01,1.06) | 1.02(0.98,1.07) | 1.05(1.01,1.10) |
| -1.1°C (30°F) ─ | 1.01(1.00,1.03) | 0.98(0.96,1.00) | 0.99(0.97,1.02) | 0.99(0.95,1.03) | 1.06(1.03,1.10) |
| 1.6 °C(35°F) ─ | 0.99(0.98,1.01) | 0.97(0.96,0.99) | 0.99(0.97,1.01) | 0.99(0.96,1.03) | 1.04(1.01,1.07) |
| 4.4°C (40°F) ─ | 1.00(0.99,1.01) | 0.98(0.96,1.00) | 0.99(0.97,1.00) | 0.97(0.94,1.00) | 1.04(1.01,1.07) |
| 7.2°C (45°F) ─ | 1.00(Referent) | 1.00(Referent) | 1.00(Referent) | 1.00(Referent) | 1.00(Referent) |
| *Abbreviations*: IHD: ischemic heart disease; CD: cerebrovascular diseases;\**OR =* odds ratio; †*CI* =confidence interval.‡ Other CVD: Acute myocardial infarction, Chronic rheumatic heart disease, and congestive heart failure*Note:* Odds Ratios were adjusted for particulate matter less than 2.5µm“─“ represents there were no cases for the particular temperature category and lag period needed to calculate statistical results |