

Supplemental Table S5-4 Epidemiologic Studies of Short-term Exposure to Oxides of Nitrogen and Mortality Not Included in the ISA

Study	Location (Years)	Mortality (ICD9/10)	Metric	Mean NO ₂ Concentration (ppb)	Upper Percentile Concentrations of NO ₂ (ppb)	Exposure Assessment	Selected Effect Estimates (95% CI) ^a
Almeida et al. (2011)	Oporto, Portugal (2000-2004)	Total Cardiovascular Respiratory	24-h avg	23.7	75 th : 31.9 Max: 131.9	Average of 3 monitors	Lag 0-1 Total: 2.1% (0.1, 5.1) Cardiovascular: 3.7% (-1.9,6.9) Respiratory: 1.1% (-2.5, 8.4)
Balakrishnan et al. (2011)	Chennai, India (2002-2004)	Total	24-h avg	8.0-16.6	36.7-49.5	Average of 5 monitors	No NO ₂ effect estimates
Barceló et al. (2009)	Barcelona, Spain (1994-2003)	Total Cardiovascular Respiratory	24-h avg	35.0	75 th : 41.5 Max: 113.3	Average of 25 stations	No NO ₂ effect estimates
Barman et al. (2010)	Lucknow, India (2006)	Not measured	24-h avg	NO _x : 18.0	---	Average of 10 city-wide monitors	No mortality effect estimates
Breitner et al. (2009)	Erfurt, Germany (1991-2002)	Total	24-h avg	18.7	---	State-run monitoring station	RR: O-5 DL; Total: 1.03 (0.96, 1.09) O-14 DL; Total: 1.09 (1.00, 1.20)
Chen et al. (2008)	Shanghai, China (2001-2004)	Total Cardiovascular Respiratory	24-h avg	35.4	75 th : 42.1 Max: 134.9	Average of 6 urban monitors	Lag 0-1 Total: 3.7% (2.5, 4.9) Cardiovascular: 3.9% (2.1, 5.6) Respiratory: 4.7% (1.6, 7.8)
Chen et al. (2010)	Anshan, China (2004-2006)	Total Cardiovascular Respiratory	24-h avg	13.6	75 th : 17.6 Max: 61.7	Average of 6 monitors	Lag 0-1 Total: 5.0% (-0.2, 10.4) Cardiovascular: 8.2% (0.8, 15.9) Respiratory: -0.7% (-18.8, 20.2)
Faustini et al.	10 Italian Cities (2001-2005)	Total Respiratory	24-hr avg	13.8 – 35.0	---	Average of varying number of monitors(>1) in each city	No NO ₂ single-pollutant effect estimates

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Faustini et al. (2012)	Rome, Italy (2005-2009)	Total Cardiac Cerebrovascular Respiratory	24-h avg	32.1	75 th : 38.2 95 th : 47.3 Max: 62.4	Average of 3 monitors	Lag 0-5 Total: COPD: 11.5 % (1.7, 22.2) Non-COPD: 6.3% (2.0, 10.6) Cardiac: COPD: -1.7% (-17.1, 16.7) Non-COPD: 7.2% (-0.2, 15.4) Cerebrovascular: COPD: 12.4% (-22.4, 62.9) Non-COPD: -0.3% (-12.2, 13.1) Respiratory: COPD: 32.2% (5.5, 65.5) Non-COPD: 4.7% (-14.1, 27.6)
Faustini et al. (2013)	6 Italian Cities (2001-2005)	Respiratory	24-h avg	24.5-35.1	---	Exposure data obtained from Italy's Regional Environmental Agencies	Lag 0-5 Respiratory: 24.4% (7.4, 44.2)
(Goldberg et al., 2013, pp. author-year)	Montreal, CAN (1990-2003)	Total	24-h avg	37.9	75 th : 45.4 Max: 165.7	Average of 7 to 10 monitors depending on the year.	No quantitative results presented.
Grass and Cane (2008)	Santiago, Chile (1988-1996)	Total Cardiovascular Respiratory	24-h avg	19-45	---	Urban park monitoring station	No NO ₂ effect estimates
Guo et al. (2010)	Tianjin, China (2005-2007)	Cardiovascular	24-h avg	25	75 th : 29.8 Max: 72.3	City environmental monitoring center	Lag 0 Cardiovascular Time Series RR: 1.04 (1.00, 1.08) Case-Crossover OR: 1.06 (1.02, 1.10)
Hu et al. (2008)	Sydney, Australia (1994-2004)	Total	24-h avg	8.7	75 th : 10.0 Max: 22.2	Average of 13 monitors	Lag 0 Total: -3.2% (-11.3, 5.7)
Huang et al. (2009)	Shanghai, China (2004-2005)	Total Cardiovascular Respiratory	24-h avg	32.9	75 th : 40.0 Max: 91.1	Fixed-site monitoring station	No NO ₂ effect estimates

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Janke et al. (2009)	United Kingdom (1998-2005)	Total Cardiovascular Respiratory	24-h avg	19.5	---	Weighted average of 174 country-wide monitors	Lag NR Total: 1.3% (SE: 0.28) Circulatory: 1.3% (SE: 0.49) CHD: 1.0% (SE: 0.65) MI: -7.0% (SE: 1.27) Stroke: 3.1% (SE: 0.91) Respiratory: 7.4% (SE: 1.27)
Klemm et al. (2011)	Atlanta, Georgia (1998-2007)	Total Circulatory Respiratory	1-h max	41.1	75 th : 50.8 Max: 109.2	Taken from the EPA's Federal Reference Method	Mean Effect: 0.0086 (t-value=0.55)
Kowalska et al. (2010)	Katowice, Poland (2001-2002)	Total	24-h avg	NO _x : 26.5	NO _x 95 th : 59.3 NO _x Max: 134.9	Average of 11 city-wide monitors	Lag 0-6: NO _x Regression coefficient: 0.002 95% CI: (0.001, 0.003)
Kumar et al. (2010)	Ludhiana City, India (2002-2004)	Total	4-h avg	NO _x : 2002: 17.1 2003: 19.3 2004: 24.6	Max: 2002: 27.1 2003: 37.2 2004: 47.3	Average of 4 monitors	No analysis conducted with NO_x.
(Liang et al., 2009)	Central Taiwan (1997-1999)	Total Cardiovascular Respiratory	24-h avg	Seasonal Averages: 17.8-28.3	Seasonal Max: 37.2-57.5	Average of 5 monitors	Winter RRs; Total (Lag 0-2): 1.18 (1.05, 1.33) Cardiovascular (Lag 1): 1.31 (1.09, 1.59) Respiratory (Lag 0-2): 1.21 (0.86, 1.80)
Lin et al. (2013)	Hong Kong (1998-2010)	Myocardial Infarction	24-h avg	27.9	75 th : 33.5 Max: 58.4	Average of 11 monitors	7.4 (2.8, 12.3); lag 0

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Lopez-Villarrubia et al. (2010)	Las Palmas de Gran Canaria and Santa Cruz de Tenerife, Canary Islands (2000-2004)	Total Cardiovascular Respiratory	24-h avg	16.1-24.4	49.6-55.7	Average of 2 monitors ins S/C de Tenerife; 1 monitor in L/P de Gran Canaria	0-5 DL; L/P de Gran Canaria Total: -7.9% (-15.2, 0.1) Cardiovascular: 1.3% (-14.6, 20.2) Respiratory: -24.1% (-42.5, 0.2) S/C de Tenerife Total: -3.3% (-11.1, 5.13) Cardiovascular: 2.3% (-15.0, 23.1) Respiratory: 9.2% (-16.1, 42.1)
Lyons et al. (2014)	Dublin, Ireland (2002-2011)	In-hospital mortality for acute medical admissions	24-h avg	Median NO _x by Quintile 1: 12.6 2: 20.2 3: 27.4 4: 38.7 5: 70.2	75 th Percentile NO _x by Quintile 1: 14.8 2: 21.8 3: 30.1 4: 43.1 5: 99.4	Average of 3 monitors	OR (95% CI) for 30-day mortality by quintile: 1: 1.00 2: 1.14 (1.00, 1.29) 3: 1.18 (1.04, 1.34) 4: 1.28 (1.13, 1.46) 5: 1.35 (1.20, 1.53)
Madsen et al. (2012)	Oslo, Norway (1992-2001)	Total Circulatory Respiratory	24-h avg Peak times	24-h: 19.5 Peak: 29.2	---	Modeled by the Norwegian Institute of Air Research	Lag 0-5; Total: 24-h: 2.3% (-4.1, 8.9) Peak: 5.8% (1.5, 10.1) Circulatory: 24-h: 1.2% (-7.3, 11.8) Peak: 6.2% (0.0, 12.6) Respiratory: 24-h: -2.2% (-17.5, 15.5) Peak: 3.8% (-7.0, 15.1)
Mahiyuddin et al. (2013)	Klang Valley, Malaysia (2000-2006)	Total Respiratory	24-h avg	19.9	75 th : 23.4 Max: 39.6	Average of 6 monitors	Lag 0: -1.8 (-16.0, 15.0) Lag 1: 2.8 (-11.7, 19.6) Lag 2: 16.5 (0.3, 35.4) Lag 3: 15.1 (0.9, 33.6) Lag 0-1: 0.7 (-15.6, 20.0) Lag 0-2: 8.9 (-10.0, 31.8) Lag 0-3: 14.9 (-6.4, 40.9) Lag 0-5: 22.7 (-0.7, 51.5) Lag 0-7: -1.8 (-16.0, 15.0)

Study	Location (Years)	Mortality (ICD9/10)	Metric	Mean NO ₂ Concentration (ppb)	Upper Percentile Concentrations of NO ₂ (ppb)	Exposure Assessment	Selected Effect Estimates (95% CI) ^a
Ou et al. (2008)	Hong Kong, China (1998)	Total	24-h avg	29.5	75 th : 35.2 Max: 66.8	Average of 8 monitors	Lag NR Total: No Education: 1.6% (-5.2, 8.8) Primary Education: 7.1% (0.5, 14.0) Secondary Education+: -2.5% (-10.6, 6.5)
Ou et al. (2012)	Hong Kong, China (1998)	Total	24-h avg	29.5	75 th : 35.2 Max: 66.8	Average of 8 monitors	Effect Modification by Food Consumption: Lag 0-2: Fish: 0.1 (-1.9, 2.0) Meat: 1.2 (-0.8, 3.3) Vegetables: -1.3 (-4.4, 1.8) Fruits: -1.9 (-3.2, -0.5) Soy: -1.7 (-2.6, -0.8) Dairy Products: 0.6 (0.04, 1.2)
Park et al. (2011)	Seoul, Korea (1999-2007)	Total Cardiovascular Respiratory	24-h avg	36.0	75 th : 44.4 90 th : 52.8 95 th : 58.2 Max: 91.9	10% Trimmed Mean of hourly concentrations from 27 monitors	Total: All year (lag 0-1) NO ₂ : 2.8 (1.5, 4.2) NO ₂ + PM ₁₀ : 2.6 (1.2, 4.0) NO ₂ + SO ₂ : 2.6 (0.9, 4.4) NO ₂ + CO: 2.5 (0.2, 4.8) NO ₂ + O ₃ : 2.8 (1.5, 4.2) Cardiovascular: All year (lag 0-1) NO ₂ : 2.4 (0.1, 4.8) NO ₂ + PM ₁₀ : 2.0 (-0.3, 4.5) NO ₂ + SO ₂ : 2.0 (-1.0, 5.1) NO ₂ + CO: 0.8 (-3.1, 4.8) NO ₂ + O ₃ : 2.4 (0.1, 4.7) Respiratory: Temperature ≥75 th percentile (lag 0-1) NO ₂ : 8.2 (-1.4, 18.6) NO ₂ + PM ₁₀ : 3.7 (-7.7, 16.6) NO ₂ + SO ₂ : 2.0 (-10.5, 16.2) NO ₂ + CO: 0.4 (-12.4, 15.1) NO ₂ + O ₃ : 6.6 (-4.9, 19.4)
Peters et al. (2009)	Erfurt, Germany (1991-2002)	Total Cardiovascular Cardiorespiratory	24-h avg	18.7	95 th : 34.7	Average of 3 monitors	Lag 4 Total: 2.7% (-1.0, 6.4) Cardiovascular: 4.2% (0.2, 9.2) Cardiorespiratory: 3.7% (-0.4, 8.0)

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Qian et al. (2013)	Shanghai, China (2003-2008)	Stroke	24-h avg	31.0	75 th : 37.4 Max:114.9	Average of 6 monitors	Stroke (Lag 0): 3.2% (1.5, 4.9) Ischaemic Stroke (Lag 0): 3.5% (0.9, 6.1) Haemorrhagic Stroke (Lag 2): 4.4% (0.9, 7.9)
Qian et al. (2008)	Wuhan, China (2001-2004)	Total Cardiovascular Stroke Cardiac Respiratory Cardiopulmonary	24-h avg	28.1	---	Average of 5 monitors	Lag 0-1 Total: 7.3% (4.7, 10.0) Cardiovascular: 7.3% (3.6, 11.1) Stroke: 7.5% (3.1, 12.0) Cardiac: 7.4% (1.2, 14.0) Respiratory: 14.4% (6.5, 22.9) Cardiopulmonary: 8.2% (4.7, 11.9)
Qian et al. (2007)	Wuhan, China (2000-2004)	Total Cardiovascular Stroke Cardiac Respiratory Cardiopulmonary	24-h avg	27.6	75 th : 33.0 Max: 67.8	Average of 5 monitors	Lag 0 Total: 5.5% (3.3, 7.7) Cardiovascular: 6.3% (3.3, 9.5) Stroke: 5.7% (2.1, 9.4) Cardiac: 6.8% (1.7, 12.2) Respiratory: 8.6% (2.0, 15.7) Cardiopulmonary: 6.1% (3.2, 9.1)
Qian et al. (2010a)	Wuhan, China (2000-2004)	Total Cardiovascular Respiratory Cardiac Stroke Cardiopulmonary Non-cardiopulmonary	24-h avg	27.6	75 th : 33.0 Max: 67.8	Average of 5 monitors	Lag 0-1 Total: 7.6% (5.0, 10.2) Cardiovascular: 8.2% (4.5, 12.0) Stroke: 8.4% (4.1, 12.9) Cardiac: 7.8% (1.7, 14.3) Respiratory: 14.6% (6.9, 22.9) Cardiopulmonary: 8.4% (4.9, 12.0)

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Qian et al. (2010b)	Wuhan, China (2000-2004)	Total Cardiovascular Respiratory Stroke	24-h avg	27.6	75 th : 33.0 Max: 67.8	Average of 5 monitors	Lag 0-1 Winter: Total: 12.9% (9.2, 16.8) Cardiovascular: 14.8% (9.7, 20.1) Stroke: 15.3% (9.2, 21.7) Respiratory: 19.2% (9.1, 30.3)
Rajaratnam et al. (2011)	Delhi, India (2002-2004)	Total	24-h avg	26.6	Max: 84.6	Average of 10 monitors	No NO ₂ single-pollutant effect estimates
Reyna et al. (2012)	Mexicali, Mexico (2003-2007)	Total	24-h avg	21.0	75 th : 28.0 90 th : 35.0 Max: 55.0	Average of 6 monitors	Winter (Lag 0): Beta: 0.1158 SE: 1.31 Summer (Lag 0): Beta: 3.97 SE: 1.64
Zauli Sajani et al. (2011)	Emilia-Romagna, Italy (2002-2006)	Total	24-h avg	Median: 26.6	95 th : 41.5	Various averaging strategies of up to 22 monitors	No NO ₂ single-pollutant effect estimates
Son et al. (2012)	Seoul, South Korea (2000-2007)	Total Cardiovascular Respiratory	24-h avg	19.6	---	Average of 27 monitors	Study did not present IQRs to standardize effect estimates. Total (Lag 0): 2.3% (1.0, 3.5) Cardiovascular (Lag 0): 4.8% (2.2, 7.5) Respiratory (Lag 1): 2.4 (-1.7, 6.7)
Tao et al. (2012)	4 Chinese Cities (2006-2008)	Total Cardiovascular Respiratory	24-h avg	20.3-37.4	---	Average of 5 monitors	Lag 0-1 Total: 7.5% (6.2, 8.9) Cardiovascular: 8.2% (6.1, 10.3) Respiratory: 13.7% (10.7, 16.9)
Thach et al. (2010)	Hong Kong, China (1996-2002)	Cardio-respiratory	24-h avg	31.2	---	Average of 8 monitors	Lag 0-1 Stroke: 4.3% (0.7, 8.0) Heart Disease: 8.0% (4.2, 12.0) LRI: 6.7% (2.8, 10.8) Respiratory: 5.3% (0.7, 10.2)

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Tsai et al. (2010)	Taichung, Taiwan (1993-2006)	Total Cardiovascular Cerebrovascular	24-h avg	28.7	Max: 80.5	1 fixed-site monitor	Lag 1 RR; Total: 1.01 (0.99, 1.80) Cardiovascular: 1.05 (1.02, 1.09) IHD: 0.99 (0.93, 1.05) Cerebrovascular: 1.04 (0.99, 1.08) Stroke: 1.03 (0.98, 1.08)
Turin et al. (2012)	Takashami, Japan (1988-2004)	Cardiovascular Cerebrovascular	24-h avg	16.0	75 th : 20.6	Exposure data obtained from the National Institute for Environmental Studies	No single pollutant NO ₂ effect estimates.
Vanos et al. (2013)	10 Canadian cities (1981-1999)	Total	24-h avg	10.0-26.4	NR	Data from National Air Pollution Surveillance (NAPS) Network	Lag and Increment Used to Calculate Risk Estimate not Provided RR (Weather Type): DM: 1.047 (1.041, 1.052) DP: 1.047 (1.039, 1.056) DT: 1.051 (1.026, 1.077) MM: 1.041 (1.031, 1.051) MP: 1.048 (1.042, 1.054) MT: 1.028 (1.017, 1.039) TR: 1.041 (1.033, 1.049) Mean: 1.043 (+/- 0.008)
Vanos et al. (2014)	10 Canadian cities (1981-1999)	Total Cardiovascular Respiratory	24-h avg	21.1	NR	Data from National Air Pollution Surveillance (NAPS) Network measured either downtown or at city airports located within 27 km of downtown	Lag and Increment Used to Calculate Risk Estimate not Provided Winter: Total: 1.020 (+/- 0.007) CV: 1.032 (+/- 0.025) Resp: 1.074 (+/- 0.025) Spring: Total: 1.040 (+/- 0.015) CV: 1.052 (+/- 0.020) Resp: 1.118 (+/- 0.028) Summer: Total: 1.043 (+/- 0.018) CV: 1.045 (+/- 0.006) Resp: 1.103 (+/- 0.034) Fall: Total: 1.038 (+/- 0.008) CV: 1.043 (+/- 0.019) Resp: 1.087 (+/- 0.017)

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Vichit-Vadakan et al. (2010)	Bangkok, Thailand (1999-2003)	Total Cardiovascular Respiratory	24-h avg	23.8	75 th : 29.1 95 th : 42.2 Max: 74.3	Average of 10 monitors	Lag 0-4; Total: 6.2% (3.4, 8.5) Cardiovascular: 6.9% (0.8, 13.4) Respiratory: 5.4% (-2.2, 13.4)
Vidale et al. (2010)	Como, Italy (2000-2003)	Total	24-h avg	---	---	Average of 2 monitors	No NO ₂ effect estimates
Shuang et al. (2013)	Urumqi, China (2006-2007)	Total Cardiovascular Respiratory	24-h avg	34.6	75 th : 42.6 Max: 82.4	Average of 3 monitors	Total: Lag 0: 10.7 (3.2, 18.6) Lag 0-1: 12.0 (3.4, 21.0) Lag 0-3 DL: 18.6 (7.3, 30.7) Lag 0-7 DL: 23.0 (7.4, 40.1) Cardiovascular: Lag 0: 7.8 (-6.4, 23.4) Lag 0-1: 1.7 (-13.6, 18.9) Lag 0-3 DL: 16.4 (-4.6, 40.4) Lag 0-7 DL: 6.3 (-19.5, 37.6) Respiratory: Lag 0: 18.1 (1.4, 36.7) Lag 0-1: 16.5 (-2.1, 37.6) Lag 0-3 DL: 16.9 (-6.6, 44.4) Lag 0-7 DL: 27.7 (-7.2, 36.8)
Wong et al. (2014)	Hong Kong, China (2001-2010)	Total (Not excluding injury/accidents) Cardiovascular Respiratory	24-h avg	30.4	75 th : 36.4	Average of all monitors in the study location.	Cohort of patients prescribed at least one antihypertensive agent from 2001-2005 Cold Season, Lag 0 Total: 9.7 (6.2, 13.4) Cardiovascular: 10.9 (4.0, 18.4) Respiratory: 7.4 (-0.2, 15.6) Warm Season, Lag 0 Total: -0.3 (-3.1, 2.5) Cardiovascular: -5.2 (-10.5, 0.5) Respiratory: -0.04 (-6.2, 6.5)

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Wong et al. (2010)	Hong Kong, China (1996-2002)	Total Cardiovascular Respiratory	24-h avg	31.2	75 th : 37.0 Max: 89.4	Average of 8 monitors	Lag 0-1; Total: 3.9% (2.6, 5.2) Cardiovascular: 5.3% (2.8, 7.8) Respiratory: 5.4% (2.5, 8.3)
Wong et al. (2009)	Hong Kong, China (1996-2002)	Total Cardiovascular Respiratory	24-h avg	31.2	75 th : 37.0 Max: 89.4	Average of 8 monitors	Lag 0-1; Respiratory Disease: 4.7% (1.0, 8.6) COPD: 1.0% (-4.9, 7.2) CVD: 4.7% (1.6, 8.0)
Wong et al. (2008)	Hong Kong, China (1996-2002)	Cardiovascular Respiratory	24-h avg	31.2	75 th : 37.0 Max: 89.4	Average of 8 monitors	Lag 0; Cardiovascular: 4.5% (2.3, 6.7) Respiratory: 3.3% (0.7, 6.1)
Wong et al. (2007)	Hong Kong, China (1998)	Total Cardio-respiratory	24-h avg	29.5	75 th : 35.2 Max: 66.8	Exposure data obtained from HK Environmental Protection Department	Lag NR; Age ≥ 30; Total: <i>Exercise:</i> 1.1% (-5.4, 8.0) <i>No Exc.:</i> 4.4% (-0.4, 9.4) Cardio-Respiratory: <i>Exercise:</i> 2.5% (-7.0, 12.7) <i>No Exc.:</i> 3.5% (-3.7, 11.1)
Yang et al.	Guangzhou, China (2007-2008)	Total	24-h avg	26.6	75 th : 34.0 Max: 103.2	Exposure data obtained from Guangzhou Environ. Monitoring Center	No NO ₂ effect estimates

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Yu et al. (2012)	Guangzhou, China (2006-2009)	Total Cardiovascular Respiratory	24-h avg	25.4	Max: 86.7	Average of 9 monitors	Total: Lag 0: 4.4 (3.1, 5.7) Lag 1: 4.0 (2.7, 5.3) Lag 0-1: 5.4 (4.0, 6.9) Lag 1-2: 3.6 (2.2, 5.0) Cardiovascular: Lag 0: 4.5 (2.3, 6.7) Lag 1: 6.1 (3.9, 8.4) Lag 0-1: 7.0 (4.6, 9.4) Lag 1-2: 5.1 (2.7, 7.5) Respiratory: Lag 0: 5.6 (2.5, 8.9) Lag 1: 0.5 (-2.6, 3.6) Lag 0-1: 3.6 (0.3, 7.1) Lag 1-2: 0.2 (-3.1, 3.5)
Zauli Sajani et al. (2011)	Emilia-Romagna, Italy (2002-2006)	Total	24-h avg	Median: 26.6	95 th : 41.5	Various averaging strategies of up to 22 monitors	Lag 1; Total: 2.9% (-1.3, 7.3)
Zhang et al. (2011)	Beijing, China (2003-2008)	Respiratory Cardiovascular	24-h avg	34.5	75 th : 41.7 Max:114.0	Average of 11 monitors	Lag 0; Respiratory: 3.6% (2.9, 4.3) Cardiovascular: 1.0% (0.3, 1.7)

^aWhen possible effect estimates (Percent Increase unless otherwise specified) were standardized to a 20 ppb increase in 24-h avg NO₂ concentrations, a 40 ppb increase in 24-h avg NO_x concentrations, and a 30 ppb increase in 1-h max NO₂ concentrations.