



APPENDIX AVAILABLE ON THE HEI WEB SITE

Research Report 169

Effects of Short-Term Exposure to Air Pollution on Hospital Admissions of Young Children for Acute Lower Respiratory Infections in Ho Chi Minh City, Vietnam

HEI Collaborative Working Group on Air Pollution, Poverty, and Health in Ho Chi Minh City

Appendix G. Comparison of Results Generated Using R vs. SAS Software

Note: Appendices Available on the Web may appear in a different order than in the original Investigators' Report, and some remnants of their original names may be apparent. HEI has not changed the content of these documents, only the letter identifier.

Appendix G was originally Appendix D

Correspondence may be addressed to Dr. Long Ngo, Harvard Medical School, Department of Medicine, Beth Israel Deaconess Medical Center, 330 Brookline Avenue, Room 130, Boston, MA 02215; e-mail: lngo@bidmc.harvard.edu.

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Appendix D: Comparison of Results Generated Using R vs. SAS Software

TABLE D.1 Comparison of risk estimates generated by R and SAS software, single pollutant average lag (1-6) days, based on Poisson regression analyses

		R ANALYSES			SAS ANALYSES			R ANALYSES			SAS ANALYSES			R ANALYSES			SAS ANALYSES		
		ER%	95% CI lo	95% CI hi	ER%	95% CI lo	95% CI hi	ER%	95% CI lo	95% CI hi	ER%	95% CI lo	95% CI hi	ER%	95% CI lo	95% CI hi	ER%	95% CI lo	95% CI hi
PM10	Lag 0	0.53	-0.31	1.38	0.63	-0.04	1.31	0.33	-0.96	1.64	0.33	-0.68	1.34	-0.14	-1.34	1.08	-0.03	-0.99	0.94
	Lag 1	0.22	-0.61	1.07	0.33	-0.33	1	0.48	-0.80	1.77	0.55	-0.43	1.54	-0.82	-2.02	0.40	-0.84	-1.8	0.13
	Lag 2	0.60	-0.23	1.43	0.7	0.04	1.36	1.07	-0.17	2.33	1.21	0.25	2.19	-0.79	-1.99	0.44	-0.69	-1.65	0.28
	Lag 3	-0.39	-1.21	0.43	-0.29	-0.94	0.37	0.31	-0.92	1.56	0.55	-0.4	1.52	-2.30	-3.48	-1.10	-2.4	-3.35	-1.44
	Lag 4	-0.25	-1.06	0.57	-0.17	-0.82	0.5	-0.28	-1.50	0.95	-0.08	-1.03	0.89	-1.46	-2.65	-0.25	-1.39	-2.34	-0.43
	Lag 5	-0.33	-1.14	0.49	-0.27	-0.93	0.4	-1.14	-2.34	0.08	-1.07	-2.03	-0.11	-0.73	-1.94	0.50	-0.48	-1.45	0.51
	Lag 6	0.83	0.01	1.65	0.87	0.2	1.54	0.23	-0.97	1.43	0.36	-0.59	1.32	0.70	-0.56	1.97	0.94	-0.06	1.96
	Lag 7	0.90	0.09	1.72	0.94	0.27	1.62	0.62	-0.56	1.82	0.75	-0.21	1.71	0.89	-0.38	2.17	1.18	0.16	2.2
	Lag 8	-0.12	-0.93	0.70	-0.06	-0.74	0.62	-0.28	-1.47	0.93	-0.21	-1.15	0.74	-0.85	-2.09	0.41	-0.54	-1.56	0.48
	Lag 9	0.50	-0.32	1.32	0.56	-0.12	1.24	0.91	-0.30	2.13	0.97	0.02	1.93	-0.78	-2.02	0.47	-0.61	-1.62	0.42
	Lag 10	-0.17	-0.99	0.66	-0.12	-0.8	0.57	0.13	-1.07	1.34	0.08	-0.86	1.02	-1.35	-2.59	-0.09	-1.2	-2.25	-0.15
Ave Lag 1-6	0.26	-0.94	1.47	0.38	-0.43	1.2	0.53	-1.46	2.56	0.79	-0.45	2.04	-2.58	-4.44	-0.68	-2.67	-3.81	-1.51	
O3	Lag 0	0.18	-0.63	0.99	0.31	-0.37	0.98	0.93	-0.21	2.08	0.96	-0.06	1.99	-0.49	-1.71	0.74	-0.41	-1.32	0.51
	Lag 1	0.03	-0.75	0.82	0.15	-0.51	0.81	0.64	-0.48	1.77	0.66	-0.34	1.66	-0.52	-1.70	0.67	-0.41	-1.31	0.49
	Lag 2	-0.43	-1.21	0.35	-0.31	-0.96	0.34	-0.03	-1.14	1.09	0.03	-0.95	1.02	-0.92	-2.08	0.26	-0.77	-1.67	0.13
	Lag 3	-0.18	-0.97	0.61	-0.04	-0.69	0.62	0.61	-0.52	1.74	0.7	-0.29	1.69	-1.13	-2.30	0.04	-0.94	-1.84	-0.04
	Lag 4	-0.21	-0.99	0.58	-0.07	-0.72	0.59	0.70	-0.42	1.84	0.78	-0.2	1.78	-1.24	-2.41	-0.06	-0.95	-1.86	-0.03
	Lag 5	-0.64	-1.41	0.15	-0.49	-1.15	0.17	-0.18	-1.28	0.93	-0.16	-1.14	0.82	-1.07	-2.23	0.10	-0.76	-1.69	0.17
	Lag 6	-0.44	-1.22	0.35	-0.31	-0.97	0.36	-0.44	-1.54	0.68	-0.4	-1.38	0.58	-0.31	-1.48	0.87	0.1	-0.82	1.03
	Lag 7	-0.24	-1.03	0.55	-0.09	-0.75	0.59	-0.36	-1.45	0.75	-0.24	-1.21	0.74	0.28	-0.92	1.48	0.76	-0.18	1.71
	Lag 8	-0.95	-1.73	-0.16	-0.79	-1.45	-0.12	-0.24	-1.33	0.86	-0.09	-1.05	0.89	-1.59	-2.78	-0.39	-1.28	-2.21	-0.33
	Lag 9	-0.80	-1.58	-0.01	-0.62	-1.28	0.05	-0.27	-0.83	1.38	0.4	-0.56	1.37	-1.74	-2.95	-0.52	-1.48	-2.43	-0.53
	Lag 10	-0.97	-1.75	-0.18	-0.78	-1.45	-0.12	-0.52	-1.61	0.59	-0.45	-1.4	0.52	-1.07	-2.28	0.15	-0.8	-1.75	0.16
Ave Lag 1-6	-0.98	-2.30	0.35	-0.6	-1.49	0.29	0.47	-1.56	2.54	0.68	-0.79	2.16	-2.33	-4.26	-0.36	-2	-3.15	-0.83	
NO2	Lag 0	0.01	-3.03	3.14	-0.12	-2.42	2.23	0.33	-5.25	6.24	-0.59	-4.57	3.56	-2.02	-5.69	1.79	-2.18	-5.11	0.85
	Lag 1	1.00	-1.98	4.08	0.82	-1.47	3.15	2.63	-2.81	8.38	1.87	-2.08	5.97	-1.52	-5.18	2.29	-1.45	-4.43	1.62
	Lag 2	3.87	0.87	6.96	3.74	1.43	6.1	6.19	0.59	12.09	5.74	1.65	9.98	0.98	-2.67	4.77	1.28	-1.76	4.41
	Lag 3	1.55	-1.41	4.60	1.51	-0.76	3.83	7.48	1.85	13.43	7.37	3.2	11.7	-3.43	-6.98	0.25	-3.46	-6.39	-0.45
	Lag 4	1.53	-1.40	4.54	1.4	-0.86	3.72	4.36	-1.11	10.13	3.98	-0.09	8.22	-1.81	-5.40	1.91	-1.72	-4.68	1.32
	Lag 5	0.74	-2.17	3.74	0.52	-1.73	2.83	1.91	-3.42	7.54	2.13	-1.91	6.34	-2.36	-5.95	1.37	-2.1	-5.07	0.97
	Lag 6	2.75	-0.20	5.79	2.49	0.19	4.83	2.98	-2.37	8.63	2.8	-1.27	7.04	0.44	-3.26	4.28	1.01	-2.05	4.16
	Lag 7	2.55	-0.41	5.59	2.23	-0.07	4.58	1.98	-3.30	7.54	1.81	-2.19	5.97	0.83	-2.92	4.73	1.31	-1.79	4.5
	Lag 8	0.11	-2.80	3.12	-0.11	-2.39	2.21	0.81	-4.40	6.30	0.59	-3.32	4.66	-3.02	-6.67	0.77	-2.85	-5.85	0.25
	Lag 9	-0.40	-3.29	2.57	-0.64	-2.9	1.66	0.04	-5.14	5.50	-0.19	-4.08	3.86	-3.53	-7.13	0.21	-3.16	-6.12	-0.1
	Lag 10	1.24	-1.72	4.28	1.05	-1.25	3.41	-1.24	-6.33	4.12	-1.6	-5.46	2.42	-0.25	-4.00	3.66	0.57	-2.48	3.72
Ave Lag 1-6	4.32	0.04	8.79	3.81	1.04	6.66	12.62	3.91	22.05	11.08	5.91	16.49	-3.29	-8.51	2.23	-3.19	-6.84	0.6	
SO2	Lag 0	-0.06	-2.87	2.84	-0.05	-2.35	2.29	-2.67	-6.28	1.08	-2.82	-5.67	0.12	2.04	-2.81	7.14	1.84	-1.96	5.79
	Lag 1	1.30	-1.49	4.18	1.23	-1.06	3.57	0.15	-3.57	4.01	0.01	-2.9	3	0.43	-4.16	5.24	0.15	-3.53	3.96
	Lag 2	0.44	-2.30	3.26	0.14	-2.11	2.44	-0.37	-4.02	3.42	-0.56	-3.43	2.39	-0.61	-5.16	4.15	-0.88	-4.51	2.88
	Lag 3	2.67	-0.13	5.55	2.43	0.13	4.78	1.18	-2.53	5.04	0.98	-1.93	3.98	1.92	-2.74	6.81	2.01	-1.7	5.87
	Lag 4	2.90	0.12	5.76	2.47	0.18	4.81	2.79	-0.94	6.66	2.45	-0.48	5.47	2.26	-2.42	7.18	2.56	-1.14	6.4
	Lag 5	1.75	-1.01	4.58	1.42	-0.86	3.76	2.84	-1.12	6.55	2.65	-0.32	5.71	-0.68	-5.20	4.04	-0.66	-4.27	3.07
	Lag 6	1.82	-0.97	4.68	1.32	-0.99	3.68	2.64	-1.12	6.55	2.71	-0.28	5.8	-0.77	-5.04	3.69	-0.19	-3.88	3.64
	Lag 7	1.50	-1.31	4.39	1.01	-1.31	3.38	2.19	-1.64	6.18	2.06	-0.96	5.18	-0.66	-4.98	3.85	0.1	-3.58	3.93
	Lag 8	0.16	-2.61	3.01	-0.4	-2.69	1.95	1.99	-1.81	5.95	1.74	-1.28	4.86	-4.36	-8.61	0.10	-4.54	-8.08	-0.87
	Lag 9	-1.58	-4.30	1.22	-2.09	-4.34	0.21	-1.36	-5.01	2.43	-1.67	-4.58	1.33	-3.92	-8.24	0.60	-3.61	-7.15	0.08
	Lag 10	-2.26	-4.99	0.55	-2.65	-4.91	-0.33	-1.93	-5.63	1.92	-2.44	-5.38	0.6	-3.00	-7.22	1.42	-3.28	-6.86	0.44
Ave Lag 1-6	4.98	0.83	9.31	4.62	1.69	7.63	4.21	-1.37	10.10	4.13	0.46	7.94	2.70	-4.88	10.88	4.67	-0.19	9.76	

FIGURE D.1 Comparison of excess risk estimates generated by R and SAS software, single pollutant average lag (1-6) days, based on Poisson regression analyses

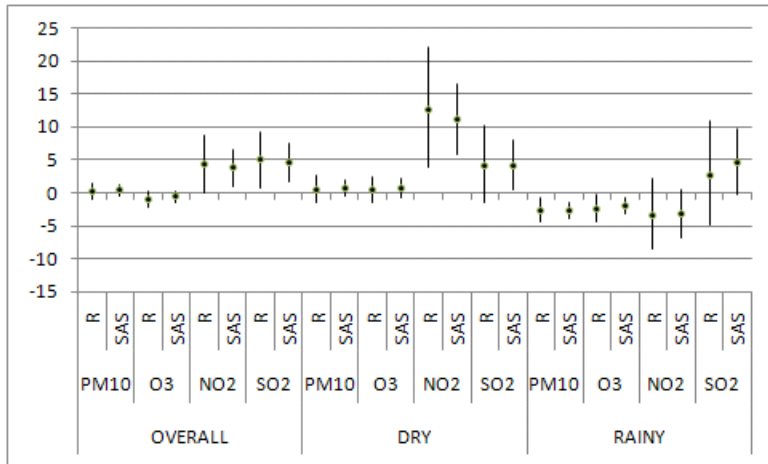


FIGURE D.2 Correlation between excess risk estimates generated by R and SAS software, single pollutant analyses, based on Poisson regression analyses

