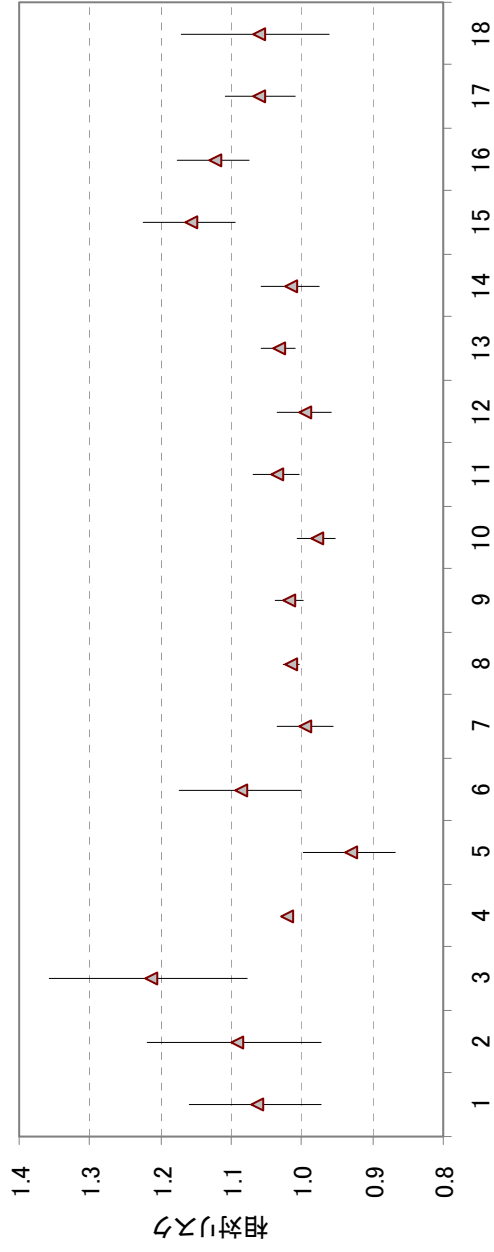


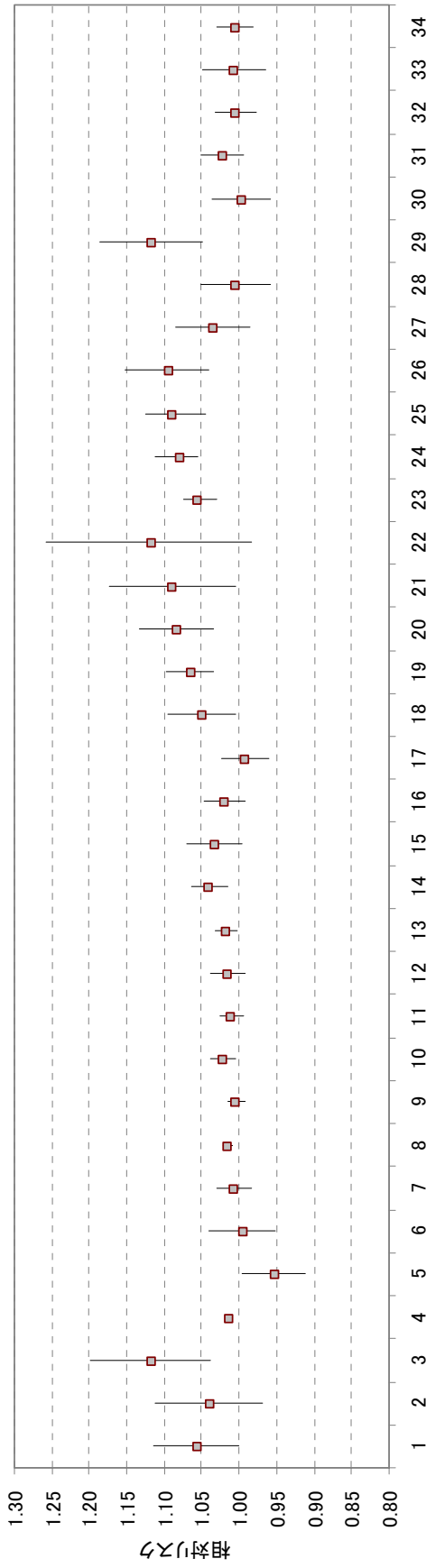
番号	文献	地域	解析モデル	死因	備考
1	Castillejos, 2000	Mexico City (Mexico)	GAM	CVD	
2	Gouveia, 2000	São Paulo (Brazil)	GLM	CVD	65+yr
3	Ostro, 1996	Santiago (Chile)	Poisson reg	CVD	
4	Hong, 1999a	Inchon (South)	GAM	CVD	
5	Hong, 1999b	Inchon (South)	GAM	CVD	
6	Wong, 2001	Hong Kong (China)	Poisson reg.	CVD	寒季
7	Wong, 2002	Hong Kong (China)	Poisson reg.	CVD	
8	Kim, 2003	Seoul (Korea)	GAM	CVD	odds
9	Tsai, 2003	Kaoshiung (Taiwan)	case-crossover	CVD	
10	Aunan, 2004	(China)	meta-analysis	CVD	
11	Ostro, 1998	Bangkok (Thailand)	Multivariate	循環器	
12	Yang, 2004	Taipei(Taiwan)	case-crossover	循環器	odds
13	Simpson, 1997	Brisbane region (Australia)	GEE	循環器	濃度は推定
14	Morgan, 1998	Sydney (Australia)	GEE	循環器	濃度は推定
15	Kan, 2003	Shanghai(China)	GAM	心疾患	
16	Wong, 2002	Hong Kong (China)	Poisson reg.	IHD	
17	Kim, 2003	Seoul (Korea)	GAM	MI	
18	Wong, 2002	Hong Kong (China)	Poisson reg.	脳血管	
19	Kim, 2003	Seoul (Korea)	GAM	脳血管	
20	Kim, 2003	Seoul (Korea)	GAM	Ischemic stroke	
21	Hong, 2002	Seoul (Korea)	GAM	Stroke	all ages
22				Stroke	Female
23				Stroke	65+yr

図 6.1(19) 短期曝露影響：死亡 PM₁₀：中南米・アジア・オセアニア（循環器系死亡）



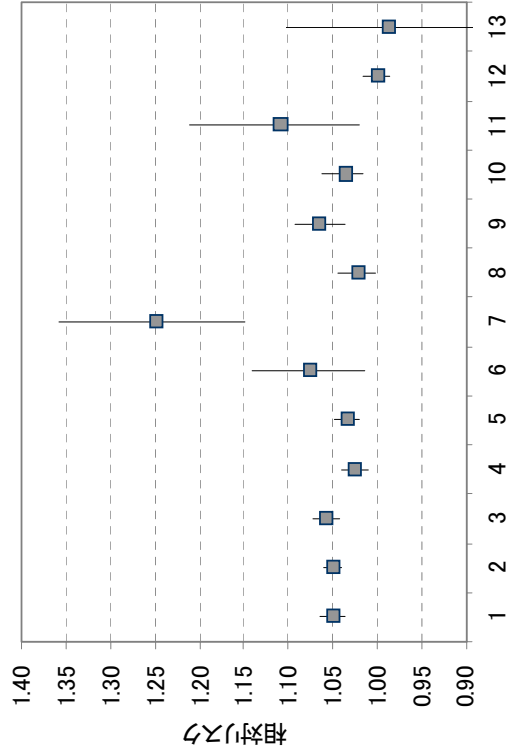
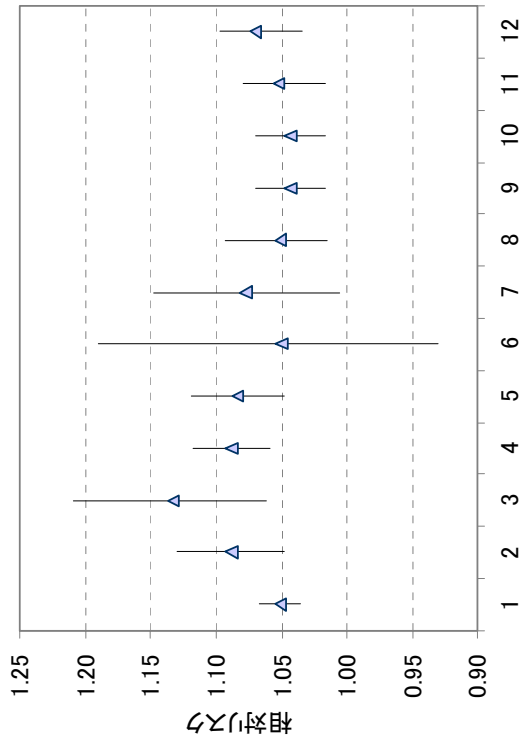
番号	文献	地域	解析モデル	死因	指標/備考
1	Borja-Aburto, 1998	Mexico City	GAM	呼吸器	PM _{2.5}
2	Castillejos, 2000	Mexico City	GAM	呼吸器	PM _{2.5}
3	Castillejos, 2000	Mexico City	GAM	呼吸器	PM _{10-2.5}
4	Omori, 2003	13政令都市 (日本)	GAM	呼吸器	SPM, 65+yr
5		Sapporo			
6		Sendai			
7		Chiba			
8		Tokyo			
9		Yokohama			
10		Kawasaki			
11		Nagoya			
12		Kyoto			
13		Osaka			
14		Kobe			
15		Hiroshima			
16		Kitakyushu			
17		Fukuoka			
18	Morgan, 1998	Sydney (Australia)	GEE	呼吸器	PM _{2.5} (推定)

図 6.1(20) 短期曝露影響：死亡 PM_{2.5}/PM_{10-2.5}/SPM：中南米・アジア・オセアニア（呼吸器系死亡）



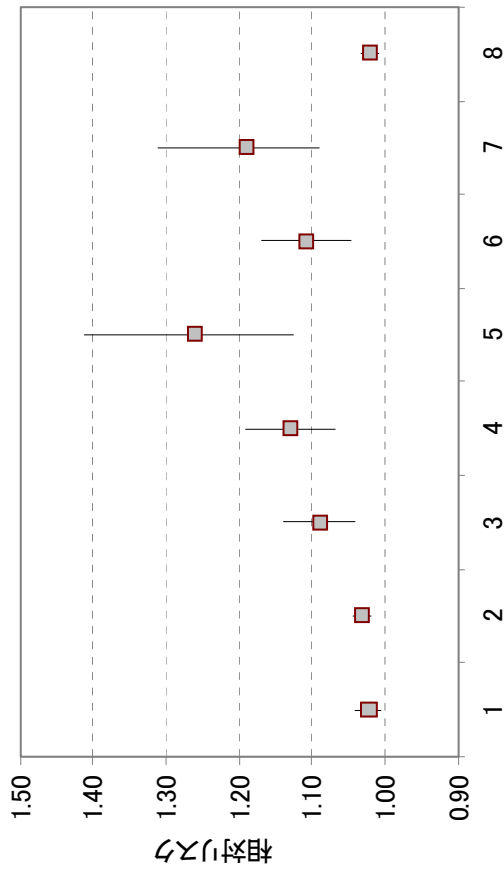
番号	文献	地域	解析モデル	死因	指標/備考	番号	文献	地域	解析モデル	死因	指標	備考
1	Borja-Aburto,	Mexico City (Mexico)	GAM	心血管	PM _{2.5}	18	Morgan, 1998	Sydney (Australia)	GEE	循環器	PM _{2.5} (推定)	1h, 100-149 μ m ³
2	Castillejos, 2000	Mexico City (Mexico)	GAM	心血管	PM _{2.5}	19	Murakami, 2006	東京 (日本)	Poisson reg.	心筋梗塞	SPM	1h, 150-199 μ m ³
3	Castillejos, 2000	Mexico City (Mexico)	GAM	心血管	PM _{10-2.5}	20						1h, 200-249 μ m ³
4	Omori, 2003	13都市 (日本)	GAM	CVD	SPM _{65+yr}	21						1h, 250-299 μ m ³
5	Sapporo					22						24h, 100-149 μ m ³
6	Sendai					23						24h, 150-199 μ m ³
7	Chiba					24						24h, 200-249 μ m ³
8	Tokyo					25						24h, 250-299 μ m ³
9	Yokohama					26	Yamazaki S, 2007	13都市 (日本)	case-crossover	脳出血	PM _{2.5} (multi-pollutant)	24h mean, odds, 65+yr
10	Kawasaki					27						24h mean, odds, 65+yr
11	Nagoya					28						1h mean, odds, 65+yr
12	Kyoto					29						1h mean, odds, 65+yr
13	Osaka					30						1h mean, odds, 65+yr
14	Kobe					31	Yamazaki S, 2007	13都市 (日本)	case-crossover	脳梗塞	PM _{2.5} (multi-pollutant)	24h mean, odds, 65+yr
15	Hiroshima					32						24h mean, odds, 65+yr
16	Kitakyushu					33						1h mean, odds, 65+yr
17	Fukuoka					34						1h mean, odds, 65+yr

図 6.1(21) 短期曝露影響：死亡 PM_{2.5}/PM_{10-2.5}/SPM：中南米・アジア・オセアニア（循環器系死亡）



番号	文献	地域	解析モデル	疾患名	備考
1	Atkinson, 2003	8 EU cities	GAM-st	全呼吸器	65+yr
2	Zanobetti, 2003	14 US cities	GAM-str	COPD	distributed
3				COPD	distributed
4				肺炎	
5	Jaffe, 2003	3 cities	Poisson reg.	肺炎	distributed
6	Atkinson, 2003	8 EU cities	GAM-st	喘息救急受診	5-34yr
7				喘息	0-14yr
8	Hwang, 2002	50 townships, cities (Taiwan)	GLM	喘息	15-64yr
9				LRI受診	all ages
10				LRI受診	0-14yr
11				LRI受診	15-64yr
12				LRI受診	65+yr
1	Schwartz, 1999	8 US counties	GAM	CVD	>65yr
2	Zanobetti, 2003	14 US cities	GAM-str	CVD	
3				CVD	distributed
4	Le Tertre, 2002	8 EU cities	GAM-str	Cardiac	all ages
5				Cardiac	65+yr
6	Barnett, 2006	7 cities in Australia and New Zealand	meta-analysis of case crossover	cardiac	65+yr
7				cardiac-fail	65+yr
8	Wellenius, 2005	9 US cities	random-effects meta	ischemic	65+yr
9	Sunyer, 2003	4 EU cities	GAM	IHD	65<yr
10	Le Tertre, 2002	8 EU cities	GAM-str	IHD	65+yr
11	von Klot, 2005	5 EU cities	Poisson reg.	心疾患再入院	35-79yr, 心筋梗塞有
12	Le Tertre, 2002	8 EU cities	GAM-str	Stroke	65+yr
13	Wellenius, 2005	9 US cities	random-effects meta	hemorrhagic	65+yr

図 6.2(1) 短期曝露影響：入院及び受診 PM₁₀：複数都市（呼吸器系疾患） 図 6.2(2) 短期曝露影響：入院及び受診 PM₁₀：複数都市（循環器系疾患）



番号	文献	地域	解析モデル	疾患名	備考
1	Dominici, 2006	204 US counties	Bayesian	COPD	65< yr
2				心不全	65< yr
3	Barnett, 2006	7 cities in Australia and New Zealand	meta-analysis of case crossover	CVD	65+yr
4				cardiac	65+yr
5				cardiac-fail	65+yr
6				IH	65+yr
7				MI	65+yr
8	Dominici, 2006	204 US counties	Bayesian 2-stage	Cerebrovascular	65< yr

図 6.2(3) 短期曝露影響：入院及び受診 $PM_{2.5}$ ：複数都市（呼吸器・循環器系疾患）

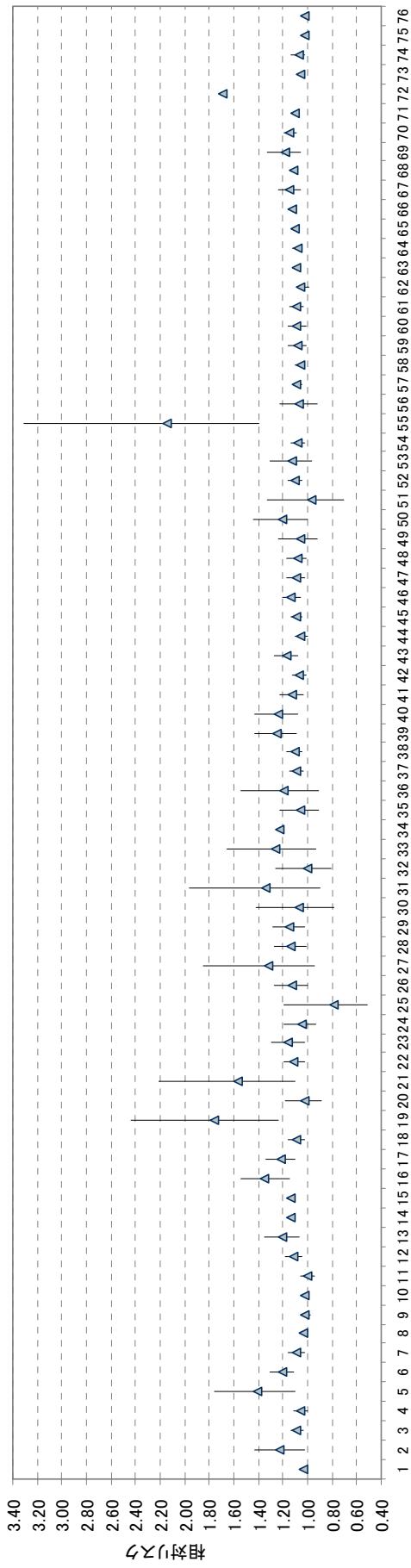
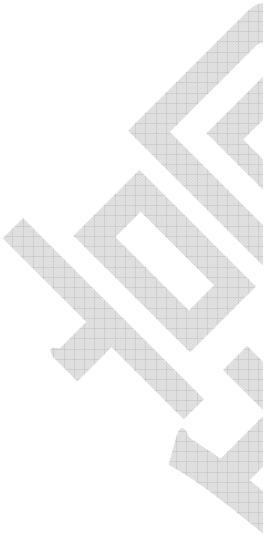
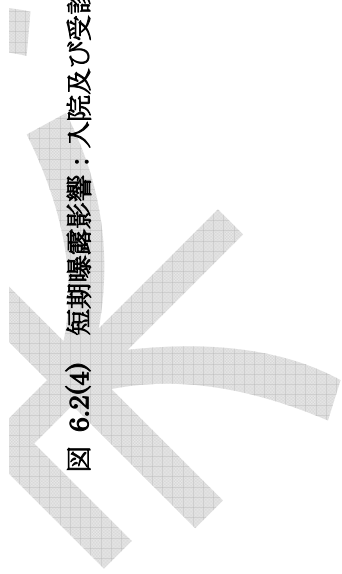


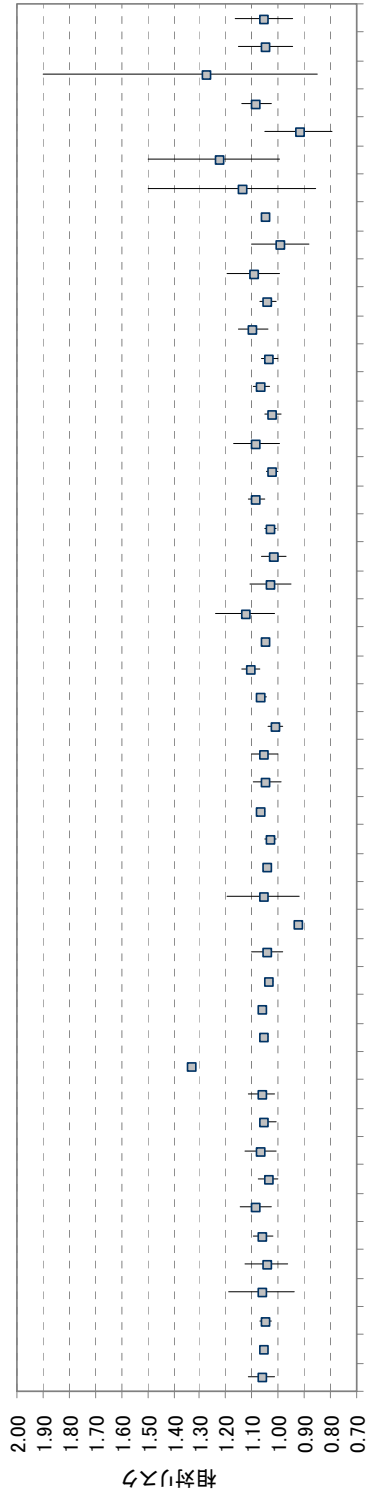
図 6.2(4) 短期曝露影響：入院及び受診 PM10：北米 (呼吸器系疾患)



番号	文献	地域	解析モデル	疾患名	備考
1	Arena, 2006	Allegheny County (PA)	GAM	肺・循環器	65+yr
2	Thurston, 1994	Toronto (Canada)	Linear reg.	呼吸器	
3	Schwartz, 1996a	Spokane (WA)	GAM	呼吸器	65+yr
4	Schwartz, 1996b	Cleveland (OH)	Case crossover	呼吸器	65+yr
5	Delfino, 1997	Montreal (Canada)	重回帰	呼吸器受診	
6	Choudhury, 1997	Anchorage (AK)	Multiple reg.	呼吸器受診	
7	Stieb, 2000	Saint John (NB, Canada)	GAM	呼吸器受診	
8	Linn, 20002	Los Angeles (CA)	Poisson reg.	肺疾患	30+yr
9	Gwynn, 2001	New York (NY)	GAM	呼吸器	white
10				呼吸器	non-white
11	Slaughter, 2005	Spokane (WA)	GLM/ns	呼吸器	
12	Burnett, 1997	Toronto(Canada)	GEE	呼吸器	
13	Schwartz, 1993	Seattle (WA)	Poisson reg.	呼吸器	
14	Gordian, 1996	Anchorage (AK)	Poisson multiple	喘息受診	<65yr
15				喘息受診	11-45yr
16	Lipsett, 1997	Santa Clara(CA)	Poisson reg.	喘息受診	all ages
17				喘息受診	20°F
18				喘息受診	30°F
19	Norris, 1999	Seattle (WA)	Poisson reg.	喘息受診	below 40°F
20	Norris, 2000	Spokane (WA)	Poisson reg.	喘息受診	<18yr
21		Seattle (WA)	Poisson reg.	喘息受診	<65yr
22	Sheppard, 2003	Seattle (WA)	GAM-str	喘息	<18yr
23	Nauenberg, 1999	Los Angeles (CA)	GLM	喘息	<65yr
24	Jaffe, 2003	3 cities	Poisson reg.	喘息受診	5-34yr
25		Cincinnati	Poisson reg.	喘息受診	5-34yr
26		Cleveland(OH)	Poisson reg.	喘息受診	5-34yr
27		Columbus	Poisson reg.	喘息受診	5-34yr
28	Tolbert, 2000	Atlanta (GA)	GEE	喘息受診	<17yr, Rate Ratio
29			Logistic reg.	喘息受診	<17yr, Odds
30	Lin, 2002	Toronto (Canada)	Case-crossover	喘息	6-12yr(男)
31			Case-crossover	喘息	6-12yr(女)
32			時系列	喘息	6-12yr(男)
33			時系列	喘息	6-12yr(女)
34	Sinclair, 2004	Atlanta (GA)	GLM	喘息受診	≤18yr
35	Tolbert, 2000	Atlanta (GA)	GLM	喘息受診	16+yr, Jan.1993-Jul.1998
36			GLM	喘息受診	16+yr, Aug.1998-Jul.1999
37	Burnett, 1999	Toronto (Canada)	GAM	喘息	
38	Schwartz, 1994a	Detroit (MI)	GEE	COPD	65+yr

番号	文献	地域	解析モデル	疾患名	備考
39	Schwartz, 1994b	Minneapolis, St. Paul (MN)	Poisson reg.	COPD	65+yr, with episode
40				COPD	
41	Schwartz, 1994c	Birmingham (AL)	Poisson reg.	COPD	65+yr, without episode
42	Burnett, 1999	Toronto (Canada)	GAM	Obstructive lung disease	65+yr
43	Schwartz, 1996	Spokane (WA)	GAM	COPD	65+yr
44	Moolgavkar, 2000	King County (WA)	GAM	COPD	
45	Zanobetti, 2003	14 US cities	GAM-str	COPD	
46			GAM-str (distributed)	COPD	
47	Chen, 2000	Reno Sparks (NV)	GAM	COPD	65+yr
48	Schwartz, 2001	Chicago (IL)	GAM	COPD	
49	Slaughter, 2005	Spokane (WA)	GLM/ns	COPD	
50	Tolbert, 2000	Atlanta (GA)	GLM	COPD受診	16+yr, Jan.1993-Jul.1998
51				COPD受診	16+yr, Aug.1998-Jul.1999
52	Zanobetti, 2000	Cook County (IL)	GAM	COPD	elderly, 糖尿病有
53	Zanobetti, 2001	Cook County (IL)	GAM	COPD	elderly, 糖尿病無
54				COPD	65+yr, 3d avg.
55	Chen, 2004	Vancouver (Canada)	GAM/GLM	COPD	65+yr
56	Ito, 2003	Detroit, (MI)	GAM-str	COPD	65+yr
57	Moolgavkar, 1997	Minneapolis-St.Paul (MN)	GAM	肺炎・COPD	65+yr
58	Schwartz, 1994a	Detroit (MI)	GEE	肺炎	65+yr
59	Schwartz, 1994b	Minneapolis, St. Paul (MN)	Poisson reg.	肺炎	65+yr, with episode
60				肺炎	65+yr, without episode
61	Schwartz, 1994c	Birmingham (AL)	Poisson reg.	肺炎	65+yr
62	Schwartz, 1996	Spokane (WA)	GAM	肺炎	65+yr
63	Zanobetti, 2003	14 US cities	GAM-str	肺炎	
64			GAM-str (distributed)	肺炎	
65	Schwartz, 2001	Chicago (IL)	GAM	肺炎	65+yr
66	Zanobetti, 2000	Cook County (IL)	GAM	肺炎	elderly, 糖尿病有
67	Zanobetti, 2001	Cook County (IL)	GAM	肺炎	elderly, 糖尿病無
68				肺炎	65+yr
69	Ito, 2003	Detroit, (MI)	GAM-str	肺炎	
70	Burnett, 1999	Toronto (Canada)	GAM	呼吸器感染	<10 yr
71	Gordian, 1996	Anchorage (AK)	Poisson multiple reg.	上気道炎受診	
72				上気道炎受診	45+yr
73				上気道炎受診	all ages
74	Peel, 2005	Atlanta (GA)	GEE	URI受診	
75	Hefflin, 1994	Richland, Pasco, Kennewick (WA)	GEE	副鼻腔炎受診	PM ₁₀ ≥150µg/m ³
76				気管支炎受診	

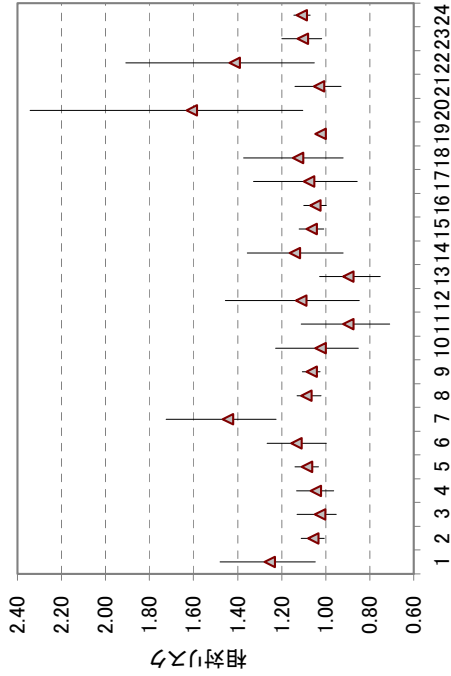
図 6.2(4) 短期曝露影響：入院及び受診 PM₁₀：北米（呼吸器系疾患）



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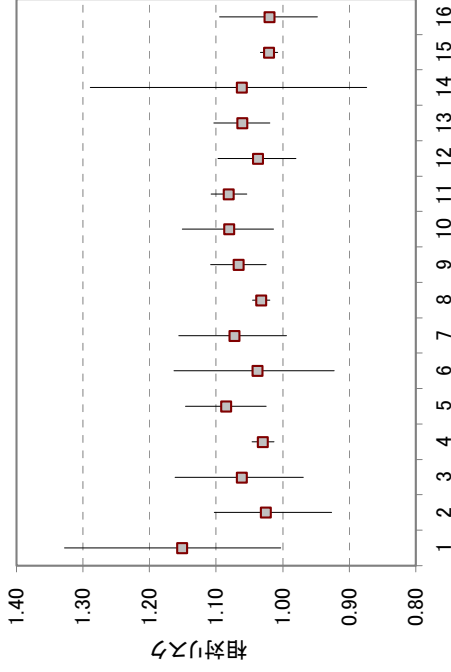
番号	文献	地域	解析モデル	疾患名	備考	番号	文献	地域	解析モデル	疾患名	備考
1	Schwartz, 1997	Tucson (AZ)	Poisson reg.	CVD	65+yr	28	Burnett, 1997	Toronto(Canada)	GBE	心疾患	all ages
2	Schwartz, 1999	8 US counties	GAM	CVD	>65yr	29	Fung, 2005	Windsor (Canada)	GLM/ns	心疾患	<65yr
3		Chicago (IL)		CVD		30				心疾患	65+yr
4		Colorado Springs		CVD		31	Schwartz, 1995	Detroit (MI)	GRE	IHD	65+yr
5		Minneapolis		CVD		32	Burnett, 1999	Toronto (Canada)	GAM	IHD	
6		New Haven (CT)		CVD		33	Wellenius, 2005	9 US cities	random-effects meta	ischemic	
7		St. Paul		CVD		34	Ito, 2003	Detroit, (MI)	GAM-str	IHD	65+yr
8		Seattle (WA)		CVD		35	Linn, 2000	Los Angeles (CA)	Poisson reg.	CHF	30+yr
9		Spokane (WA)		CVD		36	Wellenius, 2005	Allegheny (PA)	Case-crossover	CHF	65+yr
10		Tacoma (WA)		CVD		37	Linn, 2000	Los Angeles (CA)	Poisson reg.	MI	30+yr
11		Tucson (AZ)		CVD		38	Burnett, 1999	Toronto (Canada)	GAM	HF	
12	Stieb, 2000	Saint John (NB)	GAM	CVD受診		39	Morris, 1998	Chicago (IL)	GLM	HF	65+yr
13	Zanobetti, 2003	14 US cities	GAM-str	CVD		40	Ito, 2003	Detroit, (MI)	GAM-str	HF	65+yr
14			GAM-str (distributed)	CVD		41	Wellenius, 2005	9 US cities	random-effects meta	hemorrhagic	65+yr
15	Linn, 2000	Los Angeles (CA)	Poisson reg.	CVD	30+yr	42	Tolbert, 2000	Atlanta (GA)	GLM	不整脈受診	16+yr-Jan.1993-Jul.1998
16	Slaughter, 2005	Spokane (WA)	GLM/ns	CVD		43			GLM	不整脈受診	16+yr-Aug.1998-Jul.1999
17	Tolbert, 2000	Atlanta (GA)	GLM	CVD受診		44	Peel, 2007	Atlanta (GA)	Case-crossover	Congestive heart failure, ER	高血圧有, Odds
18				CVD受診		45				Congestive heart failure, ER	
19	Moolgavkar, 2003	Cook County(IL)	GAM-str	CVD	65+yr,100df(10 ⁻⁶)	46	Burnett, 1999	Toronto (Canada)	GAM	不整脈	糖尿病有, Odds
20		Los Angeles (CA)	GAM-str	CVD	65+yr,100df(10 ⁻⁶)	47	Peel, 2007	Atlanta (GA)	Case-crossover	不整脈受診	糖尿病有, Odds
21	Zanobetti, 2000	Cook County (IL)	GAM	CVD		48			Case-crossover	不整脈受診	糖尿病有, Odds
22	Metzger, 2004	Atlanta (GA)	GLM	CVD受診	odds	49	Ito, 2003	Detroit, (MI)	GAM-str	Stroke	65+yr
23	Peel, 2007	Atlanta (GA)	Case-crossover	CVD受診							
24	Linn, 2000	Los Angeles (CA)	Poisson reg.	CA	30+yr						
25	Schwartz, 2001	Chicago (IL)	GAM	心疾患	65+yr						
26	Zanobetti, 2001	Cook County (IL)	GAM	心疾患	elderly,糖尿病有						
27				心疾患	elderly,糖尿病無						

図 6.2(5) 短期曝露影響：入院及び受診 PM₁₀：北米（循環器系疾患）



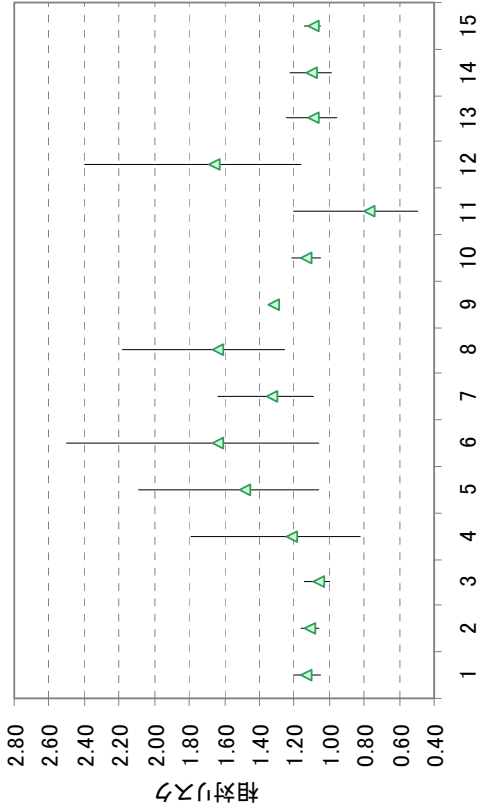
番号	文献	地域	解析モデル	疾患名	備考
1	Delfino, 1997	Montreal (Canada)	重回帰	呼吸器受診	
2	Stieb, 2000	Saint John	GLM	呼吸器受診	
3	Slaughter, 2005	Spokane (WA)	GLM/ns	呼吸器	
4	Schreuder, 2006	Spokane (WA)	GAM	呼吸器受診	Oct-Feb
5	Burnett, 1997	Toronto(Canada)	GEE	呼吸器	
6	Delfino, 1998	Quebec (Canada)	重回帰	呼吸器受診	>64yr
7	Norris, 1999	Seattle (WA)	Poisson reg.	喘息受診	<18yr
8	Sheppard, 2003	Seattle (WA)	GAM-str	喘息	<65yr
9	Burnett, 1999	Toronto (Canada)	GAM	喘息	
10	Tolbert, 2000	Atlanta (GA)	GLM	喘息受診	16+yr
11	Lin, 2002	Toronto (Canada)	Case-crossover	喘息	6-12yr(男)
12			Case-crossover	喘息	6-12yr(女)
13			時系列	喘息	6-12yr(男)
14			時系列	喘息	6-12yr(女)
15	Moolgavkar, 2000	King County (WA)	GAM	COPD	
16	Burnett, 1999	Toronto (Canada)	GAM	Obstructive lung	
17	Slaughter, 2005	Spokane (WA)	GLM/ns	COPD	16+yr
18	Tolbert, 2000	Atlanta (GA)	GLM	COPD受診	65< yr
19	Dominici, 2006	204 US counties	Bayesian	COPD	65+yr, 3d avg.
20	Chen, 2004	Vancouver	GAM/GLM	COPD	65+yr
21	Ito, 2003	Detroit, (MI)	GAM-str	COPD	65+yr
22	Peel, 2005	Atlanta (GA)	GLM	肺炎受診	PM _{2.5} (OC)
23	Ito, 2003	Detroit, (MI)	GAM-str	肺炎	65+yr
24	Burnett, 1999	Toronto (Canada)	GAM	呼吸器感染	

図 6.2(6) 短期曝露影響：入院及び受診 PM_{2.5}：北米 (呼吸器系疾患)

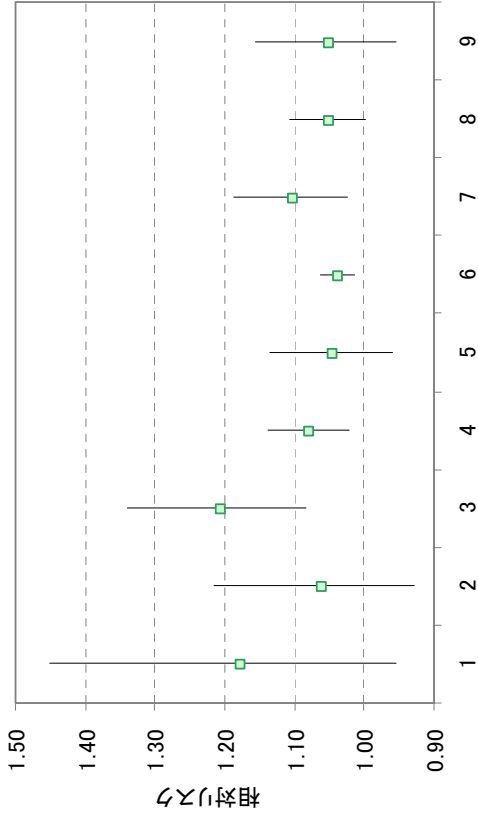


番号	文献	地域	解析モデル	疾患名	備考
1	Stieb, 2000	Saint John (Canada)	GAM	CVD受診	
2	Slaughter, 2005	Spokane (WA)	GLM/ns	CVD	
3	Tolbert, 2000	Atlanta (GA)	GLM	CVD受診	16+yr
4	Moolgavkar, 2003	Los Angeles Co. (CA)	GAM-str	CVD	65+yr, 100dff(10 ⁻⁸)
5	Metzger, 2004	Atlanta (GA)	GLM	CVD受診	
6	Schreuder, 2006	Spokane (WA)	GAM	CVD	Oct-Feb
7	Burnett, 1997	Toronto(Canada)	GEE	cardiac	
8	Dominici, 2006	204 US counties	Bayesian	心不全	65< yr
9	Burnett, 1999	Toronto (Canada)	GAM	HF	
10	Ito, 2003	Detroit, (MI)	GAM-str	HF	65+yr
11	Burnett, 1999	Toronto (Canada)	GAM	IHD	
12	Ito, 2003	Detroit, (MI)	GAM-str	IHD	65+yr
13	Burnett, 1999	Toronto (Canada)	GAM	不整脈	
14	Tolbert, 2000	Atlanta (GA)	GLM	不整脈受診	16+yr
15	Dominici, 2006	204 US counties	Bayesian	脳血管	65< yr
16	Ito, 2003	Detroit, (MI)	GAM-str	Stroke	65+yr

図 6.2(7) 短期曝露影響：入院及び受診 PM_{2.5}：北米 (循環器系疾患)

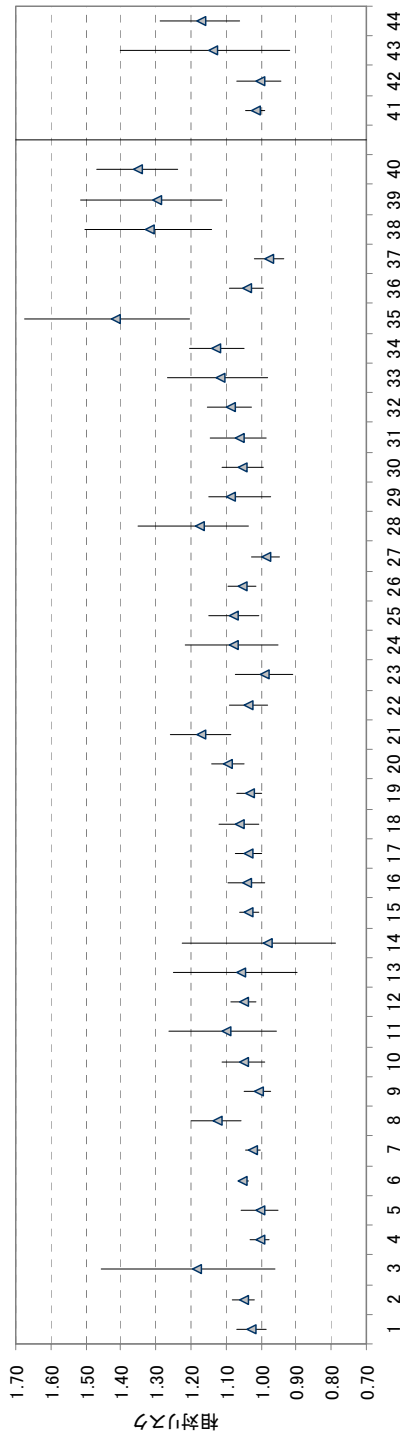


番号	文献	地域	解析モデル	疾患名	備考
1	Burnett, 1997	Toronto(Canada)	GEE	呼吸器	
2	Burnett, 1999	Toronto (Canada)	GAM	呼吸器	
3	Sheppard, 2003	Seattle (WA)	GAM-str	喘息	<65yr
4	Tolbert, 2000	Atlanta (GA)	GLM	喘息受診	16+yr
5	Lin, 2002	Toronto (Canada)	Case-crossover	喘息	6-12yr(男)
6			Case-crossover	喘息	6-12yr(女)
7			時系列	喘息	6-12yr(男)
8			時系列	喘息	6-12yr(女)
9	Sinclair, 2004	Atlanta (GA)	GLM	喘息受診	≤18yr
10	Burnett, 1999	Toronto (Canada)	GAM	Obstructive lung disease	
11	Tolbert, 2000	Atlanta (GA)	GLM	COPD受診	16+yr
12	Chen, 2004	Vancouver (BC, Canada)	GAM/GLM	COPD	65+yr,3d avg.
13	Ito, 2003	Detroit, (MI)	GAM-str	COPD	65+yr
14	Ito, 2003	Detroit, (MI)	GAM-str	肺炎	65+yr
15	Burnett, 1999	Toronto (Canada)	GAM	呼吸器感染	



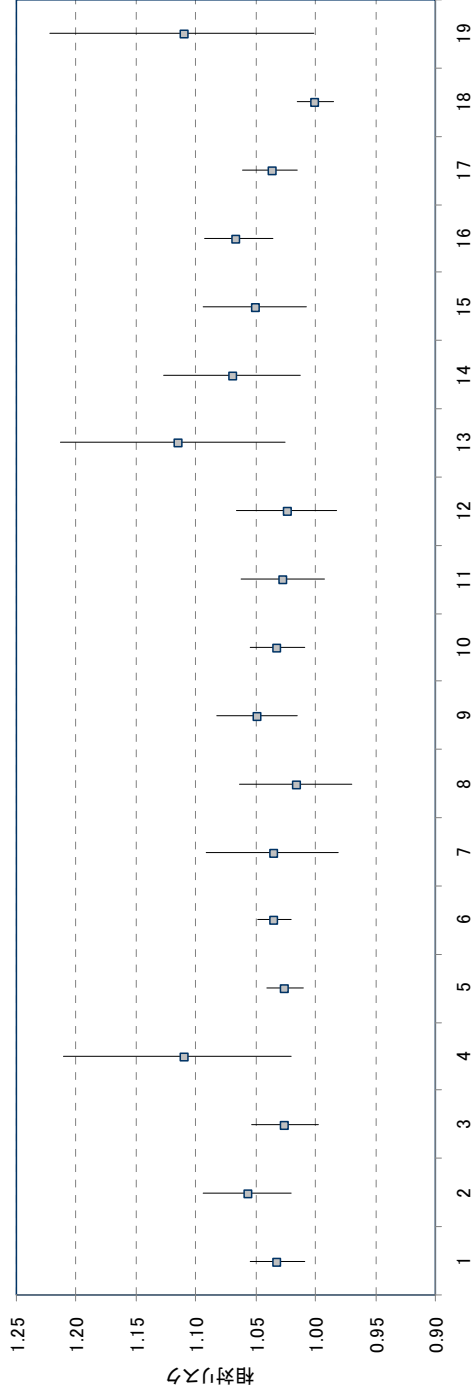
番号	文献	地域	解析モデル	疾患名	備考
1	Tolbert, 2000	Atlanta (GA)	GLM	CVD受診	16+yr
2	Metzger, 2004	Atlanta (GA)	GLM	CVD受診	
3	Burnett, 1997	Toronto(Canada)	GEE	cardiac	
4	Burnett, 1999	Toronto(Canada)	GAM	HF	
5	Ito, 2003	Detroit, (MI)	GAM-str	HF	65+yr
6	Burnett, 1999	Toronto (Canada)	GAM	IHD	
7	Ito, 2003	Detroit, (MI)	GAM-str	IHD	65+yr
8	Burnett, 1999	Toronto (Canada)	GAM	不整脈	
9	Ito, 2003	Detroit, (MI)	GAM-str	Stroke	65+yr

図 6.2(8) 短期曝露影響：入院及び受診 PM_{10-2.5}：北米 (呼吸器系疾患) 図 6.2(9) 短期曝露影響：入院及び受診 PM_{10-2.5}：北米 (循環器系疾患)



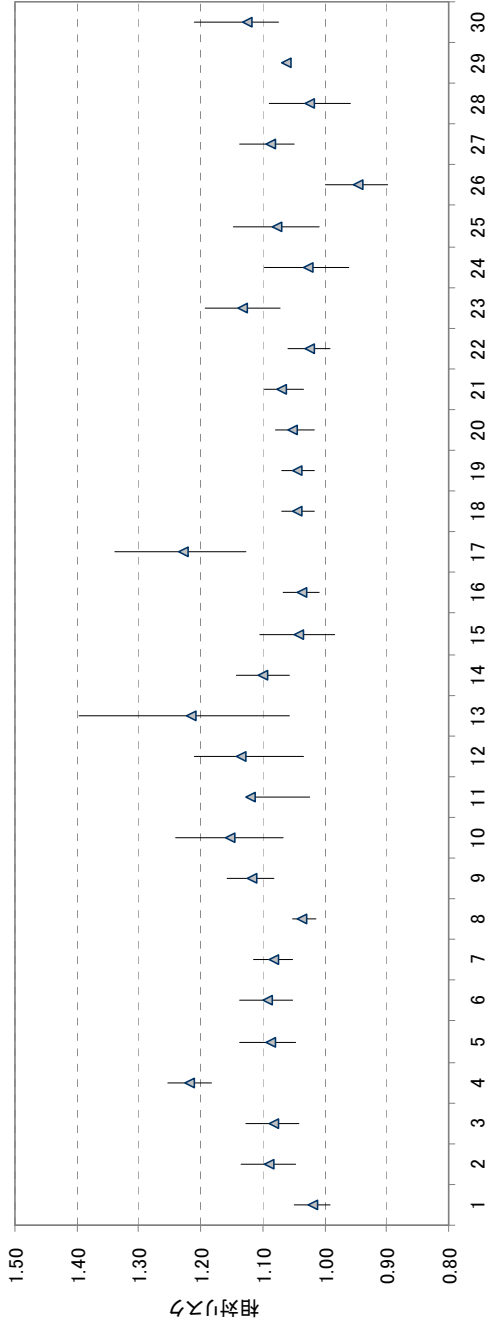
番号	文献	地域	解析モデル	疾患名	備考
1	Anderson, 2001	中部地方(UK)	GLM	呼吸器	
2	Atkinson, 1999	London (UK)	GLM	全呼吸器	
3	Hagen, 2000	Drammen (Norway)	GAM	呼吸器	
4	Fusco, 2001	Rome (Italy)	GAM	呼吸器	
5	Atkinson, 2003	8 EU cities	GAM	呼吸器	0-14yr
6	Dab, 1996	Paris (France)	GAM-st	呼吸器	65+yr
7	Wordley, 1997	Birmingham (UK)	Poisson reg.	呼吸器	
8	Wordley, 1997	Birmingham (UK)	Multiple linear reg.	呼吸器	
9	Fusco, 2001	Rome (Italy)	GAM	急性呼吸器感染	
10	Oftedal, 2003	Drammen (Norway)	GAM	急性呼吸器感染	0-14yr
11	Atkinson, 1999	London (UK)	Poisson reg.	呼吸器受診	
12	Vegni, 2004	Milan (Italy)	Poisson reg.	呼吸器受診	
13	Hajat, 1999	London (UK)	Poisson reg.	呼吸器受診	単変量
14	Hajat, 1999	London (UK)	Poisson reg.	呼吸器受診	多変量
15	Hajat, 1999	London (UK)	Poisson reg.	LRD受診	
16	Hajat, 1999	London (UK)	Poisson reg.	LRD受診	0-14yr
17	Hajat, 1999	London (UK)	Poisson reg.	LRD受診	15-64yr
18	Hajat, 1999	London (UK)	Poisson reg.	LRD受診	65+yr
19	Hajat, 2002	London (UK)	GAM	LRD受診	0-14yr
20	Hajat, 2002	London (UK)	GAM	LRD受診	15-64yr
21	Hajat, 2002	London (UK)	GAM	LRD受診	65+yr
22	Atkinson, 1999	London (UK)	GLM	喘息	
23	Fusco, 2001	Rome (Italy)	GAM	喘息	0-14yr
24	Atkinson, 2003	8 EU cities	GAM	喘息	0-14yr
25	Atkinson, 2003	8 EU cities	GAM-st	喘息	15-64yr
26	Dab, 1996	Paris (France)	GAM-st	喘息	
27	Dab, 1996	Paris (France)	Poisson reg.	喘息	
28	Wordley, 1997	Birmingham (UK)	Multiple linear reg.	喘息	
29	Atkinson, 1999	London (UK)	Poisson reg.	喘息受診	
30	Hajat, 1999	London (UK)	Poisson reg.	喘息受診	0-14yr
31	Hajat, 1999	London (UK)	Poisson reg.	喘息受診	15-64yr
32	Hajat, 1999	London (UK)	Poisson reg.	喘息受診	65+yr
33	Medina, 1997	Greater Paris (France)	Poisson reg.	喘息 (Dr' s house calls)	≤64yr
34	Medina, 1997	Greater Paris (France)	GAM	喘息 (Dr' s house calls)	0-14yr
35	Medina, 1997	Greater Paris (France)	GAM	喘息 (Dr' s house calls)	0-14yr
36	Fusco, 2001	Rome (Italy)	GAM	COPD	
37	Dab, 1996	Paris (France)	GAM	COPD	
38	Wordley, 1997	Birmingham (UK)	Poisson reg.	COPD	
39	Hajat, 2001	London (UK)	Multiple linear reg.	肺炎	
40	Hajat, 2001	London (UK)	GAM	アレルギー性鼻炎	1-14yr
41	Anderson, 2001	中部地方(UK)	GAM	アレルギー性鼻炎	15-64yr
42	Anderson, 2001	中部地方(UK)	GLM	アレルギー性鼻炎	PM _{2.5} (推定)
43	Hajat, 2001	London (UK)	GLM	アレルギー性鼻炎	PM _{10-2.5} (推定)
44	Hajat, 2001	London (UK)	GAM	アレルギー性鼻炎	1-14yr,BS

図 6.2(10) 短期曝露影響：入院及び受診 PM₁₀/PM_{2.5}/BS：欧州（呼吸器系疾患）



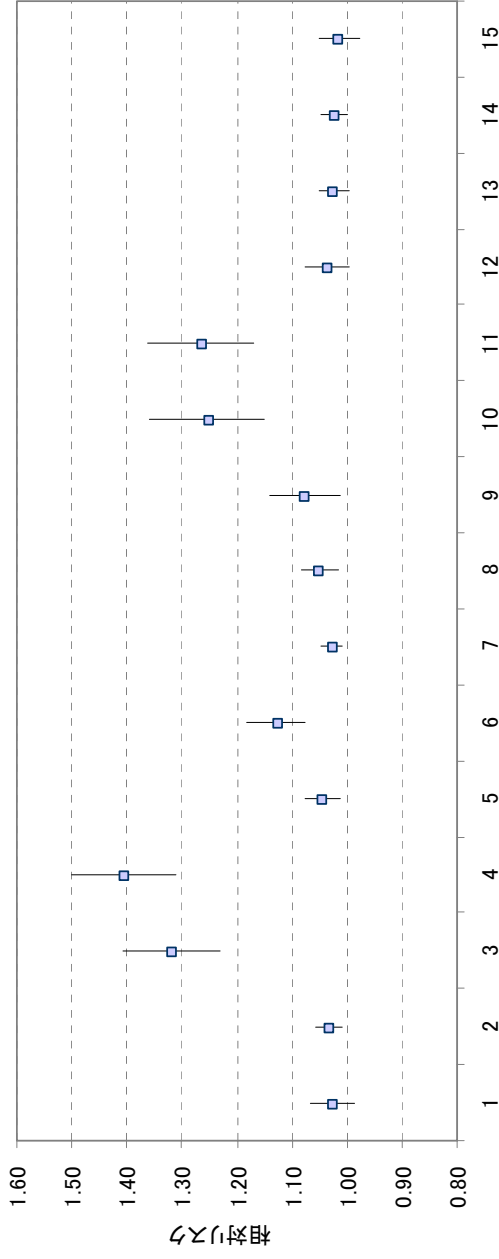
番号	文献	地域	解析モデル	疾患名	備考
1	Atkinson, 1999	London (UK)	GLM	CVD	
2			GLM	CVD	0-64yr
3	von Klot, 2005	5 EU cities	GLM	CVD	65+yr
4	Le Tertre, 2002	8 EU cities	Poisson reg.	心疾患再	35-79yr, 心筋梗塞有
5			GAM-str	Cardiac	all ages
6		8 EU cities		Cardiac	65+yr
7		Barcelona		Cardiac	65+yr
8		Birmingham (UK)		Cardiac	65+yr
9		London (UK)		Cardiac	65+yr
10		Milan (Italy)		Cardiac	65+yr
11		Paris		Cardiac	65+yr
12		Rome (Italy)		Cardiac	65+yr
13		Stockholm		Cardiac	65+yr
14	Atkinson, 1999	London (UK)	GLM	IHD	0-64yr
15			GLM	IHD	65+yr
16	Sunyer, 2003	4 EU cities	GAM	IHD	65< yr
17	Le Tertre, 2002	8 EU cities	GAM-str	IHD	65+yr
18	Le Tertre, 2002	8 EU cities	GAM-str	Stroke	65+yr
19	Wordley, 1997	Birmingham (UK)	Multiple linear reg.	Stroke	

図 6.2(11) 短期曝露影響：入院及び受診 PM₁₀：欧州（循環器系疾患）



番号 文献	地域	解析モデル	疾患名	備考	番号 文献	地域	解析モデル	疾患名	備考
1	Gouveia, 2000	São Paulo (Brazil)	呼吸器	<5yr	16	Ostro, 1999	Santiago (Chile)	LRS受診	2-15yr
2	Braga, 1999	São Paulo (Brazil)	呼吸器	<13yr	17	Lin, 1999	São Paulo (Brazil)	LRS受診	<13yr
3	Braga, 1999	São Paulo (Brazil)	呼吸器	<13yr	18	Hwang, 2002	50 townships, cities (Taiwan)	LRS受診	all ages
4	Lin, 1999	São Paulo (Brazil)	呼吸器受診	<13yr	19				0-14yr
5	Wong, 1999	Hong Kong (China)	呼吸器受診	5-64yr	20				15-64yr
6				65+yr	21				65+yr
7				overall	22	Gouveia, 2000	São Paulo (Brazil)	肺炎	<5yr
8	Wong, 2002	Hong Kong (China)	呼吸器受診	65+yr	23	Wong, 1999	Hong Kong (China)	肺炎・インフルエンザ	
9	McGowan, 2002	Christchurch (NZ)	呼吸器		24	Gouveia, 2000	São Paulo (Brazil)	喘息	<5yr
10	Simpson, 2005	Brisbane, Melbourne, Sydney (Australia)	呼吸器	elderly	25	Wong, 1999	Hong Kong (China)	喘息	
11	Barnett, 2005	Brisbane, Melbourne, perth, Sydney (Australia)	呼吸器	1-4yr	26	Wong, 2002	Hong Kong (China)	喘息受診	15-64yr
12				5-14yr	27	Lee, 2002	Seoul (Korea)	喘息	≤15yr
13	Chen, 2007	Brisbane (Australia)	呼吸器受診		28	Morgan, 1998	Sydney (Australia)	喘息	15-64yr
14	Wong, 1999	Hong Kong (China)	COPD		29	Johnston, 2002	Darwin (Australia)	喘息受診	
15	Morgan, 1998	Sydney (Australia)	COPD	65+yr	30			喘息受診	濃度≥40ug/m ³

図 6.2(12) 短期曝露影響：入院及び受診 PM₁₀：中南米・アジア・オセアニア（呼吸器系疾患）



番号 文献	地域	解析モデル	疾患名	備考
1	Wong, 1999	Hong Kong (China)	CVD受診	5-64yr
2	Yang, 2004	Kaohsiung (Taiwan)	CVD受診	65+yr
3	Yang, 2004	Kaohsiung (Taiwan)	CVD	≥25°C, Odds
4	Yang, 2004	Kaohsiung (Taiwan)	CVD	<25°C, Odds
5	McGowan, 2002	Christchurch (NZ)	CVD	
6	Simpson, 2005	Brisbane, Melbourne, Sydney (Australia)	循環器	
7	Wong, 2002	Hong Kong (China)	循環器	
8	Morgan, 1998	Sydney (Australia)	cardiac受診	
9	Barnett, 2006	7 cities in Australia and New Zealand	心疾患	65+yr
10	Barnett, 2006	7 cities in Australia and New Zealand	cardiac	65+yr
11	Wong, 1999	Hong Kong (China)	cardiac-fail	65+yr
12	Wong, 1999	Hong Kong (China)	Heart failure	
13	Wong, 2002	Hong Kong (China)	IHD	
14	Hosseinpoor, 2005	Tehran (Iran)	IHD受診	
15	Wong, 1999	Hong Kong (China)	狭心症	
			Cerebrovascular	

図 6.2(13) 短期曝露影響：入院及び受診 PM10：中南米・アジア・オセアニア（循環器系疾患）

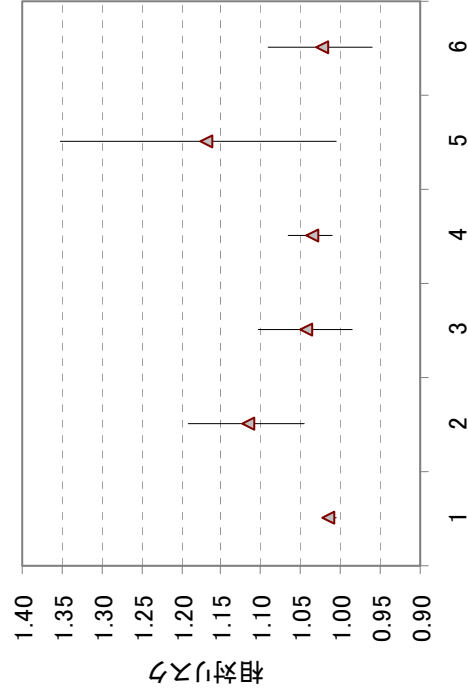


図 6.2(14) 短期曝露影響：入院及び受診
PM_{2.5}：中南米・アジア・オセアニア（呼吸器系疾患）

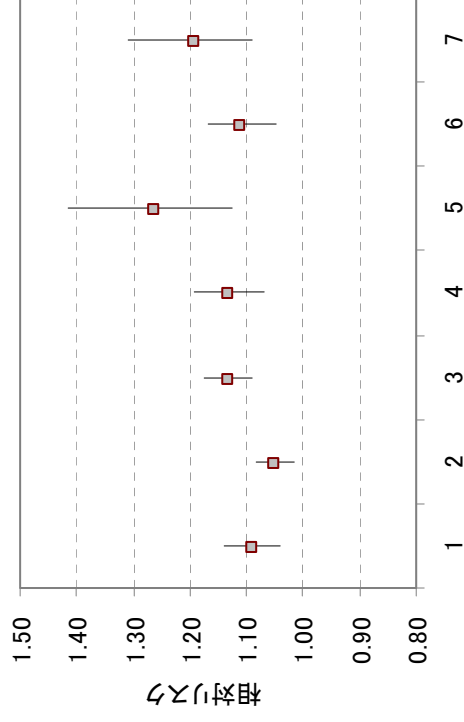


図 6.2(15) 短期曝露影響：入院及び受診
PM_{2.5}：中南米・アジア・オセアニア（循環器系疾患）

番号文献	地域	解析モデル	疾患名	備考
1	Barnett, 2006	meta-analysis of case crossover	CVD	65+yr
2	Morgan, 1998	Poisson reg.	心疾患	65+yr
3	Simpson, 2005	GAM-str	循環器	
4	Barnett, 2006	case crossover	cardiac	65+yr
5	Barnett, 2006	case crossover	cardiac-fail	65+yr
6	Barnett, 2006	case crossover	IH	65+yr
7	Barnett, 2006	case crossover	MI	65+yr