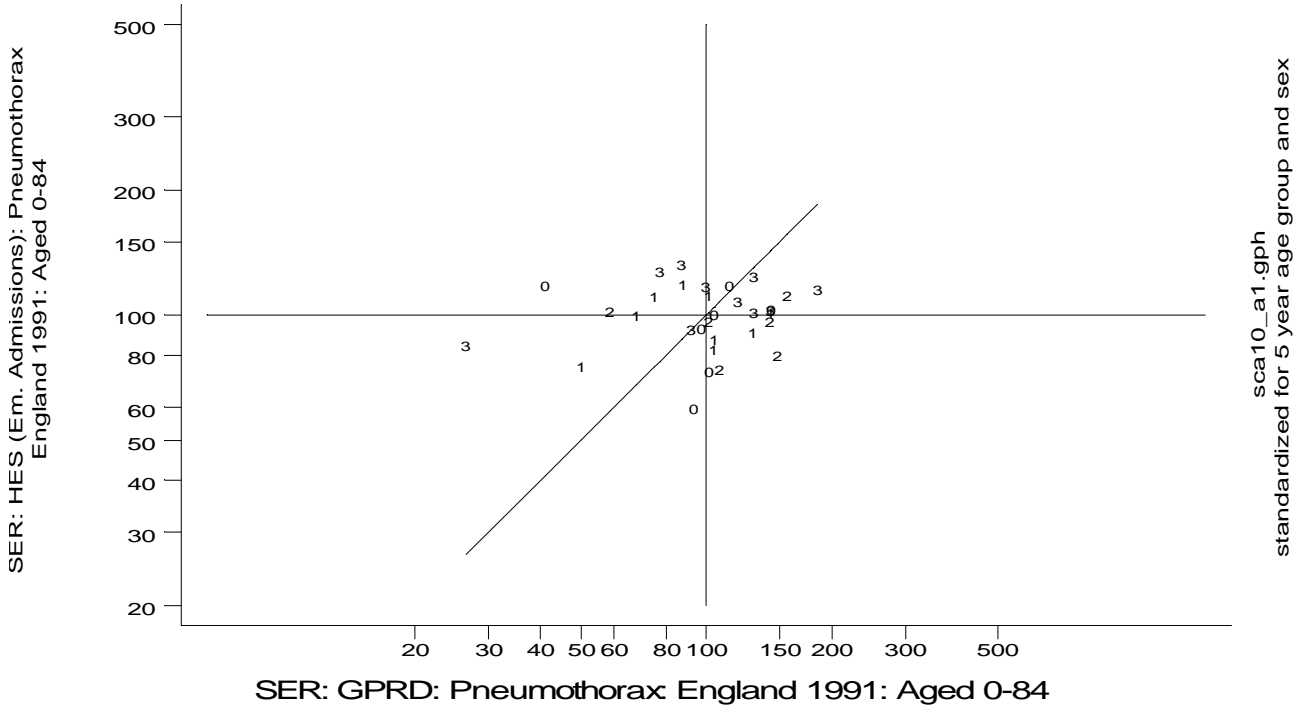


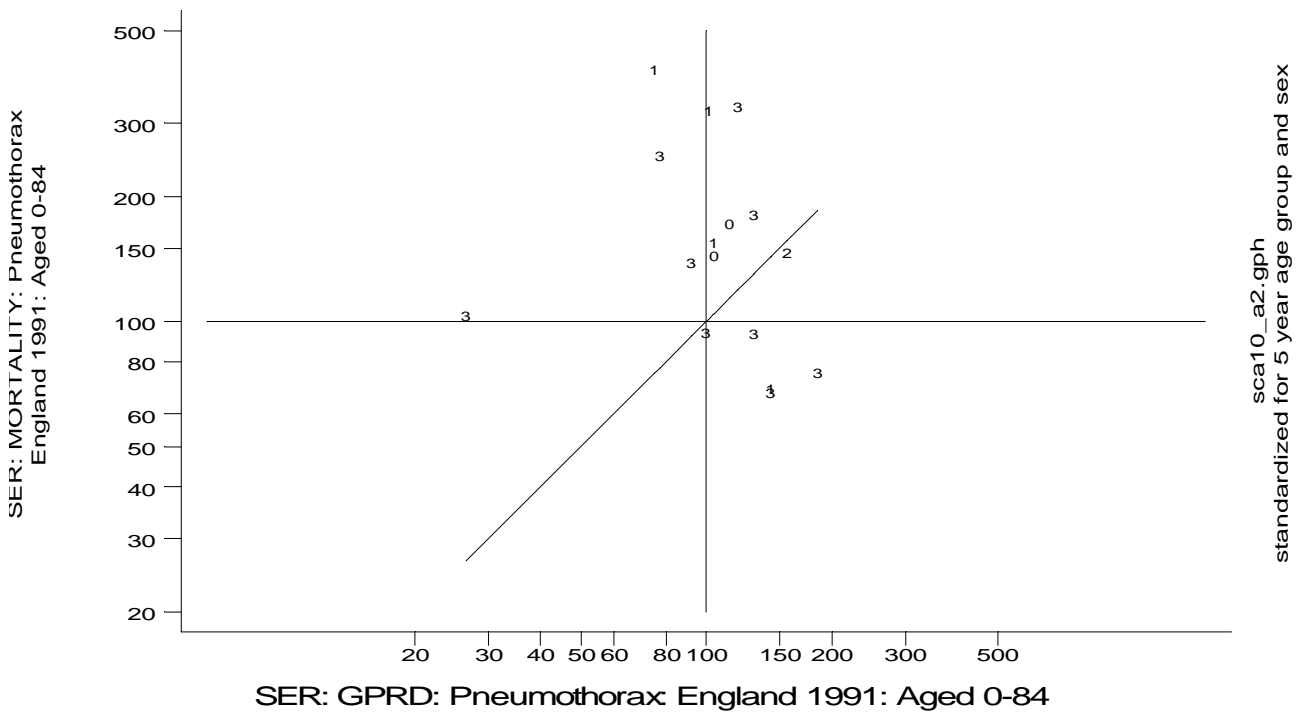
Scatterplots and correlation coefficients (standardised event ratios standardised for age and sex)

- region and urban-rural comparisons between GPRD, HES and Mortality, England 1991, ages 0-84

“HES vs. GPRD”



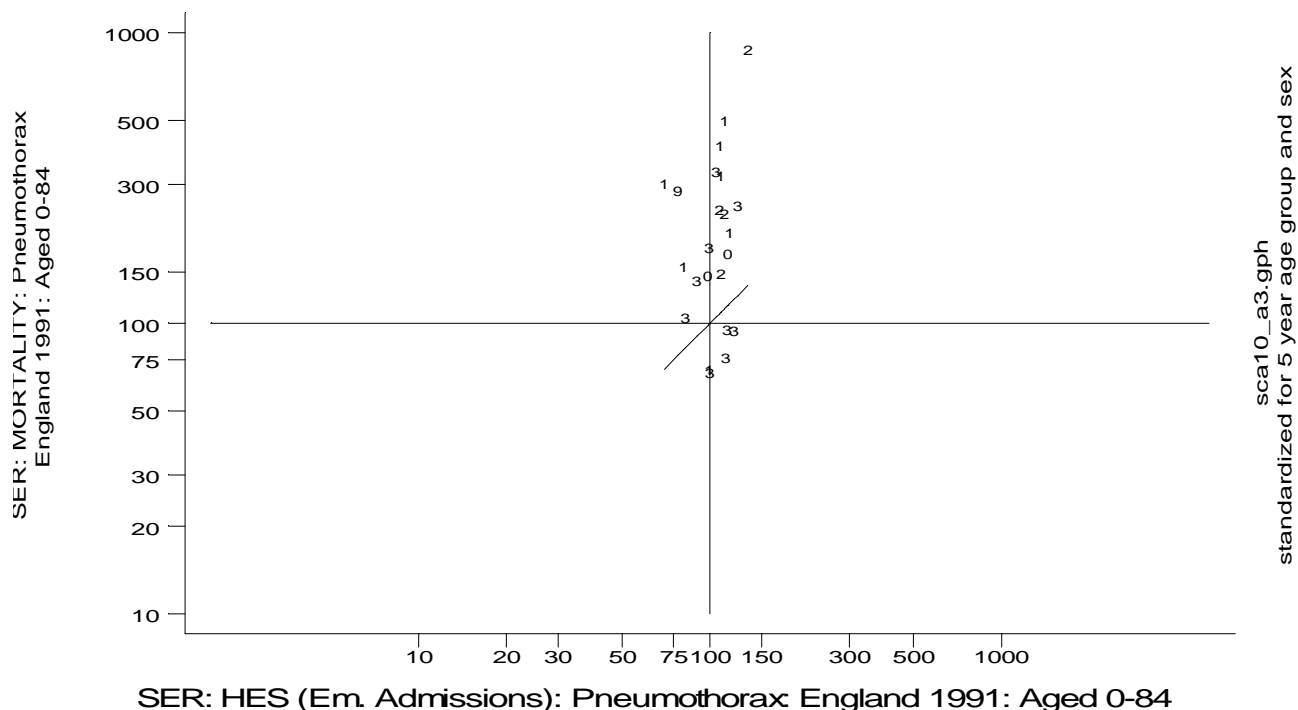
“MORTALITY vs. GPRD”



Scatterplots and correlation coefficients (standardised event ratios standardised for age and sex)

- region and urban-rural comparisons between GPRD, HES and Mortality, England 1991, ages 0-84

“MORTALITY vs. HES”



Pneumothorax: Spearman Rank Correlation Coefficients: “All Ages vs. All Ages”

	MORTALITY	HES	GPRD
MORTALITY		0.26	0.01
HES	0.26		-0.03
GPRD	0.01	-0.03	

ALL AGES vs. ALL AGES

a1: HES (0-84) vs. GPRD (0-84)
 Number of obs = 33
 Spearman's rho = -0.0304
 Test of Ho: hsl₁₀ and gsal₁₀ independent
 Pr > |t| = 0.8666

a2: MORTALITY (0-84) vs. GPRD (0-84)
 Number of obs = 33
 Spearman's rho = 0.0147
 Test of Ho: msl₁₀ and gsal₁₀ independent
 Pr > |t| = 0.9351

a3: MORTALITY (0-84) vs. HES (0-84)
 Number of obs = 50
 Spearman's rho = 0.2554
 Test of Ho: msl₁₀ and hsl₁₀ independent
 Pr > |t| = 0.0734

Scatterplots and correlation coefficients (standardised event ratios standardised for age and sex)

- region and urban-rural comparisons between GPRD, HES and Mortality, England 1991, ages 0-84

ALL AGES

Observed Number of Pneumothorax Events,
England 1991: Aged 0-84

rha	urban	goal_10	ho1_10	mo1_10
Northern	rural	14	84	1
Northern	mixed	.	76	1
Northern	urban	.	58	0
Northern	conurbat	10	130	3
Yorkshir	rural	.	59	0
Yorkshir	mixed	2	60	0
Yorkshir	urban	.	51	0
Yorkshir	conurbat	7	218	1
Trent	rural	2	120	0
Trent	mixed	8	199	1
Trent	urban	.	87	0
Trent	conurbat	9	166	1
E Anglia	rural	11	125	0
E Anglia	mixed	7	52	1
E Anglia	Indeterm	.	34	1
NW Thame	mixed	5	77	0
NW Thame	urban	6	79	0
NW Thame	conurbat	11	232	1
NE Thame	rural	.	52	0
NE Thame	mixed	.	27	0
NE Thame	urban	2	48	0
NE Thame	conurbat	5	255	3
SE Thame	rural	3	72	1
SE Thame	mixed	.	45	2
SE Thame	urban	0	130	2
SE Thame	conurbat	3	195	1
SW Thame	mixed	14	109	0
SW Thame	urban	2	48	0
SW Thame	conurbat	1	117	1
Wessex	rural	7	16	0
Wessex	mixed	7	106	0
Wessex	urban	.	116	2
Wessex	Indeterm	.	76	0
Oxford	rural	.	60	0
Oxford	mixed	7	156	2
Oxford	urban	.	12	1
S Wester	rural	7	111	0
S Wester	mixed	5	116	0
S Wester	urban	9	101	1
S Wester	Indeterm	.	54	0
W Midlan	rural	3	64	0
W Midlan	mixed	.	82	0
W Midlan	urban	4	87	0
W Midlan	conurbat	28	277	3
Mersey	mixed	6	71	2
Mersey	urban	.	47	2
Mersey	conurbat	6	204	0
N Wester	mixed	.	29	1
N Wester	urban	6	117	0
N Wester	conurbat	11	352	5

A15 Pneumothorax standard output graphs

Scatterplots and correlation coefficients (standardised event ratios standardised for age and sex)

- **region and urban-rural comparisons between GPRD, HES and Mortality, England 1991, ages 0-84**

Denominator for Pneumothorax Events,
England 1991: Aged 0-84

rha	urban	gda1_10	hd1_10	md1_10
Northern	rural	73693.9	782999	782999
Northern	mixed	.	597416	597416
Northern	urban	.	553415	553415
Northern	conurbat	46625.4	1114143	1114143
Yorkshir	rural	.	487087	487087
Yorkshir	mixed	21894.9	739537	739537
Yorkshir	urban	.	663675	663675
Yorkshir	conurbat	21123.7	1732867	1732867
Trent	rural	26873.1	944794	944794
Trent	mixed	31104.1	1805855	1805855
Trent	urban	.	616563	616563
Trent	conurbat	50327.4	1283438	1283438
E Anglia	rural	60878.6	1232209	1232209
E Anglia	mixed	39800.4	418874	418874
E Anglia	Indeterm	.	396166	396166
NW Thame	mixed	39289.2	722017	722017
NW Thame	urban	24596.9	777014	777014
NW Thame	conurbat	41145.8	2029948	2029948
NE Thame	rural	.	553971	553971
NE Thame	mixed	.	290283	290283
NE Thame	urban	9959.2	608426	608426
NE Thame	conurbat	18955.0	2277344	2277344
SE Thame	rural	14831.8	561907	561907
SE Thame	mixed	.	589118	589118
SE Thame	urban	5564.5	1052077	1052077
SE Thame	conurbat	12769.3	1432129	1432129
SW Thame	mixed	73245.9	1156955	1156955
SW Thame	urban	7411.1	562687	562687
SW Thame	conurbat	20236.4	1254634	1254634
Wessex	rural	41099.5	247082	247082
Wessex	mixed	29406.8	1080522	1080522
Wessex	urban	.	952302	952302
Wessex	Indeterm	.	643322	643322
Oxford	rural	.	592824	592824
Oxford	mixed	37103.4	1755566	1755566
Oxford	urban	.	177780	177780
S Wester	rural	27446.6	1004839	1004839
S Wester	mixed	30809.9	879303	879303
S Wester	urban	31243.0	819129	819129
S Wester	Indeterm	.	529621	529621
W Midlan	rural	16603.4	823682	823682
W Midlan	mixed	.	818638	818638
W Midlan	urban	38256.0	787725	787725
W Midlan	conurbat	163850.3	2764012	2764012
Mersey	mixed	44506.4	607659	607659
Mersey	urban	.	326479	326479
Mersey	conurbat	38048.6	1446235	1446235
N Wester	mixed	.	235257	235257
N Wester	urban	32636.9	1142919	1142919
N Wester	conurbat	79551.5	2572495	2572495

A15 Pneumothorax standard output graphs

Scatterplots and correlation coefficients (standardised event ratios standardised for age and sex)

- **region and urban-rural comparisons between GPRD, HES and Mortality, England 1991, ages 0-84**

Crude Rate of Pneumothorax Events,
England 1991: Aged 0-84

rha	urban	gral_10	hr1_10	mr1_10
Northern	rural	0.2	107.3	1.3
Northern	mixed	.	127.2	1.7
Northern	urban	.	104.8	0.0
Northern	conurbat	0.2	116.7	2.7
Yorkshir	rural	.	121.1	0.0
Yorkshir	mixed	0.1	81.1	0.0
Yorkshir	urban	.	76.8	0.0
Yorkshir	conurbat	0.3	125.8	0.6
Trent	rural	0.1	127.0	0.0
Trent	mixed	0.3	110.2	0.6
Trent	urban	.	141.1	0.0
Trent	conurbat	0.2	129.3	0.8
E Anglia	rural	0.2	101.4	0.0
E Anglia	mixed	0.2	124.1	2.4
E Anglia	Indeterm	.	85.8	2.5
NW Thame	mixed	0.1	106.6	0.0
NW Thame	urban	0.2	101.7	0.0
NW Thame	conurbat	0.3	114.3	0.5
NE Thame	rural	.	93.9	0.0
NE Thame	mixed	.	93.0	0.0
NE Thame	urban	0.2	78.9	0.0
NE Thame	conurbat	0.3	112.0	1.3
SE Thame	rural	0.2	128.1	1.8
SE Thame	mixed	.	76.4	3.4
SE Thame	urban	0.0	123.6	1.9
SE Thame	conurbat	0.2	136.2	0.7
SW Thame	mixed	0.2	94.2	0.0
SW Thame	urban	0.3	85.3	0.0
SW Thame	conurbat	0.0	93.3	0.8
Wessex	rural	0.2	64.8	0.0
Wessex	mixed	0.2	98.1	0.0
Wessex	urban	.	121.8	2.1
Wessex	Indeterm	.	118.1	0.0
Oxford	rural	.	101.2	0.0
Oxford	mixed	0.2	88.9	1.1
Oxford	urban	.	67.5	5.6
S Wester	rural	0.3	110.5	0.0
S Wester	mixed	0.2	131.9	0.0
S Wester	urban	0.3	123.3	1.2
S Wester	Indeterm	.	102.0	0.0
W Midlan	rural	0.2	77.7	0.0
W Midlan	mixed	.	100.2	0.0
W Midlan	urban	0.1	110.4	0.0
W Midlan	conurbat	0.2	100.2	1.1
Mersey	mixed	0.1	116.8	3.3
Mersey	urban	.	144.0	6.1
Mersey	conurbat	0.2	141.1	0.0
N Wester	mixed	.	123.3	4.3
N Wester	urban	0.2	102.4	0.0
N Wester	conurbat	0.1	136.8	1.9

Scatterplots and correlation coefficients (standardised event ratios standardised for age and sex)

- region and urban-rural comparisons between GPRD, HES and Mortality, England 1991, ages 0-84

Expected Number of Pneumothorax Events,
England 1991: Aged 0-84

rha	urban	geal_10	hel_10	mel_10
Northern	rural	13.4	85.6	0.7
Northern	mixed	.	65.5	0.5
Northern	urban	.	58.9	0.4
Northern	conurbat	8.4	123.8	0.9
Yorkshir	rural	.	53.5	0.5
Yorkshir	mixed	4.0	81.6	0.7
Yorkshir	urban	.	73.0	0.5
Yorkshir	conurbat	3.8	192.6	1.4
Trent	rural	4.9	104.5	0.9
Trent	mixed	5.6	200.0	1.5
Trent	urban	.	70.2	0.5
Trent	conurbat	9.0	145.0	1.1
E Anglia	rural	11.3	137.8	1.2
E Anglia	mixed	6.9	47.9	0.3
E Anglia	Indeterm	.	43.8	0.4
NW Thame	mixed	7.4	79.0	0.5
NW Thame	urban	4.2	84.0	0.6
NW Thame	conurbat	7.7	232.2	1.5
NE Thame	rural	.	61.6	0.5
NE Thame	mixed	.	31.2	0.2
NE Thame	urban	1.9	66.4	0.5
NE Thame	conurbat	3.8	256.4	1.7
SE Thame	rural	2.6	62.7	0.6
SE Thame	mixed	.	64.8	0.7
SE Thame	urban	1.0	116.3	0.9
SE Thame	conurbat	2.3	161.6	1.1
SW Thame	mixed	13.4	128.1	1.1
SW Thame	urban	1.3	61.4	0.5
SW Thame	conurbat	3.8	141.9	1.0
Wessex	rural	7.5	27.5	0.3
Wessex	mixed	5.4	118.8	0.9
Wessex	urban	.	108.0	0.8
Wessex	Indeterm	.	73.3	0.8
Oxford	rural	.	65.3	0.4
Oxford	mixed	6.7	192.7	1.3
Oxford	urban	.	18.3	0.1
S Wester	rural	4.9	110.3	1.1
S Wester	mixed	5.7	100.0	0.9
S Wester	urban	5.8	92.4	0.7
S Wester	Indeterm	.	58.6	0.5
W Midlan	rural	3.0	89.3	0.7
W Midlan	mixed	.	89.2	0.7
W Midlan	urban	6.8	87.3	0.7
W Midlan	conurbat	30.4	306.6	2.2
Mersey	mixed	8.0	65.6	0.5
Mersey	urban	.	34.8	0.2
Mersey	conurbat	6.9	157.6	1.2
N Wester	mixed	.	25.9	0.2
N Wester	urban	5.9	124.0	1.0
N Wester	conurbat	14.2	282.1	2.0

A15 Pneumothorax standard output graphs

Scatterplots and correlation coefficients (standardised event ratios standardised for age and sex)

- **region and urban-rural comparisons between GPRD, HES and Mortality, England 1991, ages 0-84**

SER's for Pneumothorax Events, standardized for age5 and sex
 England 1991: Aged 0-84

rha	urban	gsal_10	hs1_10	ms1_10
Northern	rural	104.3	98.1	141.0
Northern	mixed	.	116.1	199.2
Northern	urban	.	98.4	0.0
Northern	conurbat	119.1	105.0	322.7
Yorkshir	rural	.	110.3	0.0
Yorkshir	mixed	50.0	73.5	0.0
Yorkshir	urban	.	69.8	0.0
Yorkshir	conurbat	185.2	113.2	73.8
Trent	rural	41.1	114.9	0.0
Trent	mixed	142.6	99.5	67.4
Trent	urban	.	123.8	0.0
Trent	conurbat	100.1	114.5	92.2
E Anglia	rural	97.1	90.7	0.0
E Anglia	mixed	101.1	108.7	314.2
E Anglia	Indeterm	.	77.7	276.6
NW Thame	mixed	67.8	97.5	0.0
NW Thame	urban	141.8	94.1	0.0
NW Thame	conurbat	142.6	99.9	65.8
NE Thame	rural	.	84.5	0.0
NE Thame	mixed	.	86.6	0.0
NE Thame	urban	107.4	72.3	0.0
NE Thame	conurbat	130.2	99.4	176.9
SE Thame	rural	113.8	114.9	168.1
SE Thame	mixed	.	69.5	292.6
SE Thame	urban	0.0	111.8	232.0
SE Thame	conurbat	130.3	120.7	91.5
SW Thame	mixed	104.3	85.1	0.0
SW Thame	urban	148.2	78.2	0.0
SW Thame	conurbat	26.5	82.4	101.1
Wessex	rural	93.6	58.2	0.0
Wessex	mixed	129.4	89.2	0.0
Wessex	urban	.	107.4	239.2
Wessex	Indeterm	.	103.6	0.0
Oxford	rural	.	91.9	0.0
Oxford	mixed	104.0	81.0	151.4
Oxford	urban	.	65.5	1016.7
S Wester	rural	143.3	100.6	0.0
S Wester	mixed	87.6	115.9	0.0
S Wester	urban	156.2	109.3	143.3
S Wester	Indeterm	.	92.1	0.0
W Midlan	rural	101.5	71.6	0.0
W Midlan	mixed	.	91.9	0.0
W Midlan	urban	58.7	99.7	0.0
W Midlan	conurbat	92.0	90.3	135.5
Mersey	mixed	75.1	108.2	394.9
Mersey	urban	.	135.1	847.5
Mersey	conurbat	87.3	129.5	0.0
N Wester	mixed	.	111.9	483.5
N Wester	urban	101.2	94.4	0.0
N Wester	conurbat	77.3	124.8	245.7