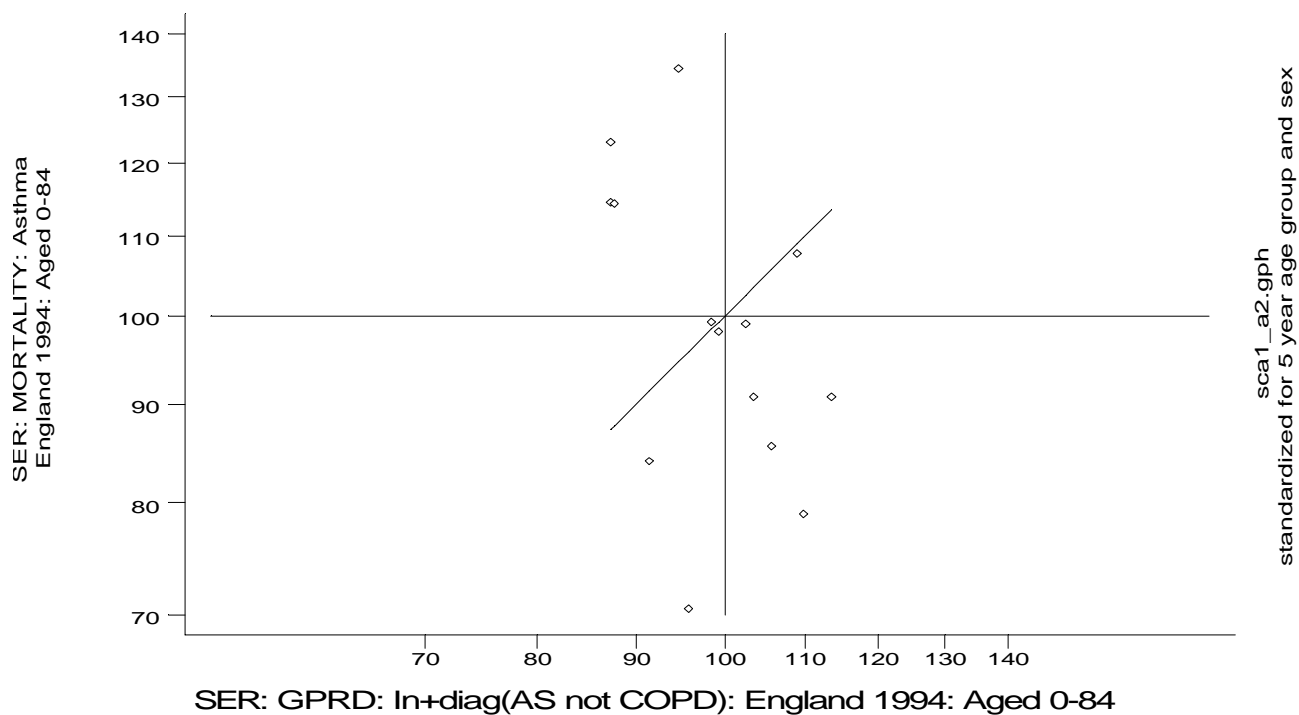
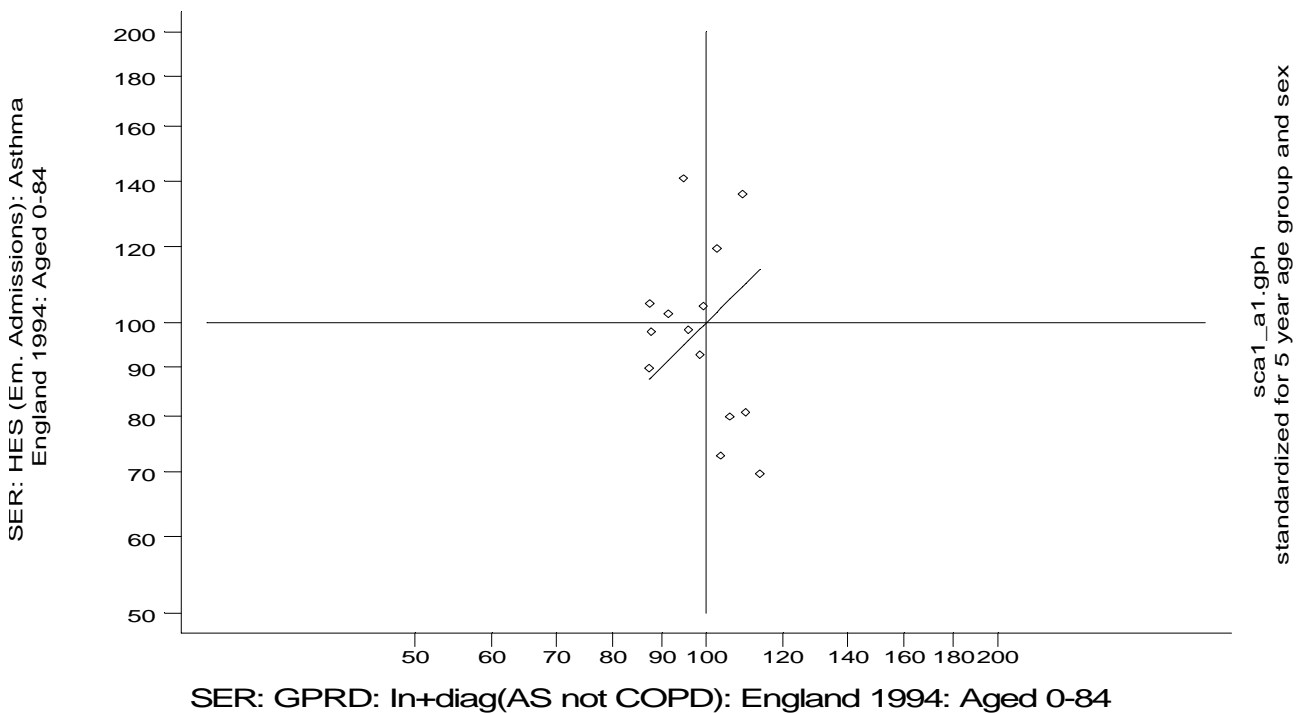


A6 Asthma standard output graphs

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

- regional comparisons between HSE95, GPRD, HS and mortality, England 1994, ages 0-84

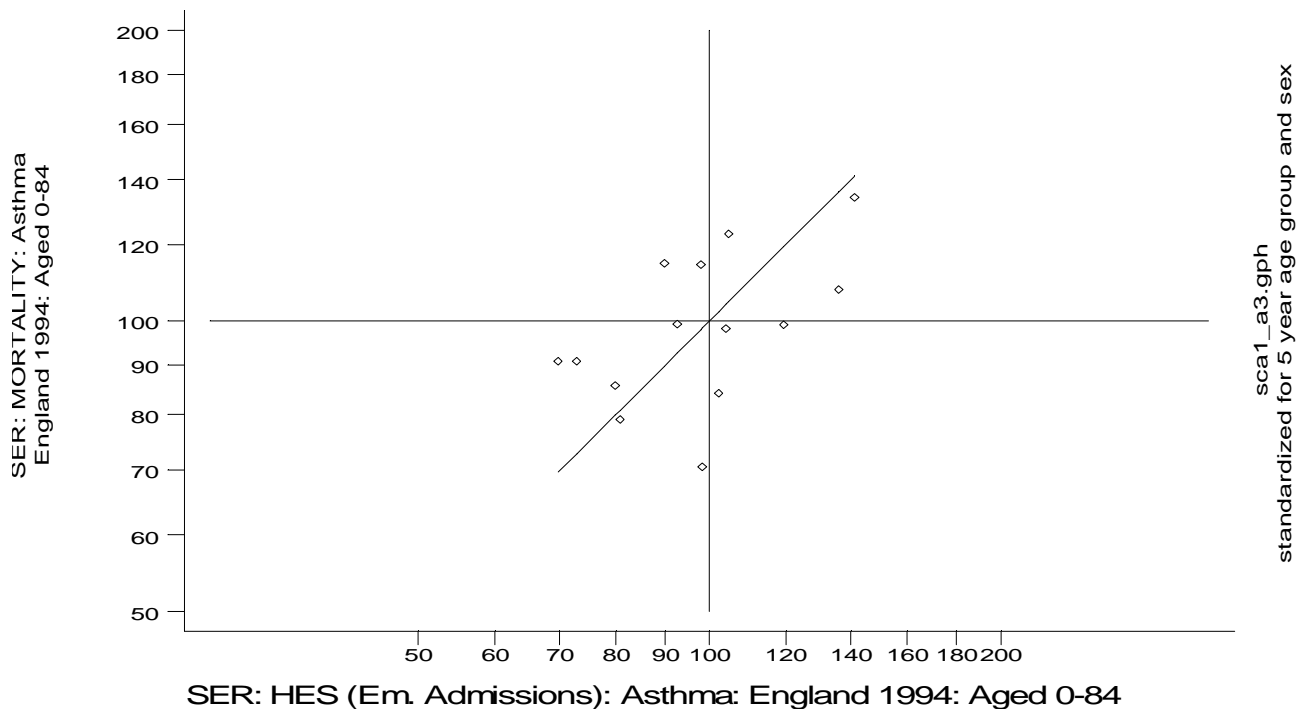
“ALL AGES vs. ALL AGES”



A6 Asthma standard output graphs

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

- regional comparisons between HSE95, GPRD, HS and mortality, England 1994, ages 0-84



ALL AGES vs. ALL AGES

a1: HES (0-84) vs. GPRD (0-84)
Number of obs = 14
Spearman's rho = -0.3538
Test of Ho: hsl_1 and gsc1_8 independent
Pr > |t| = 0.2145

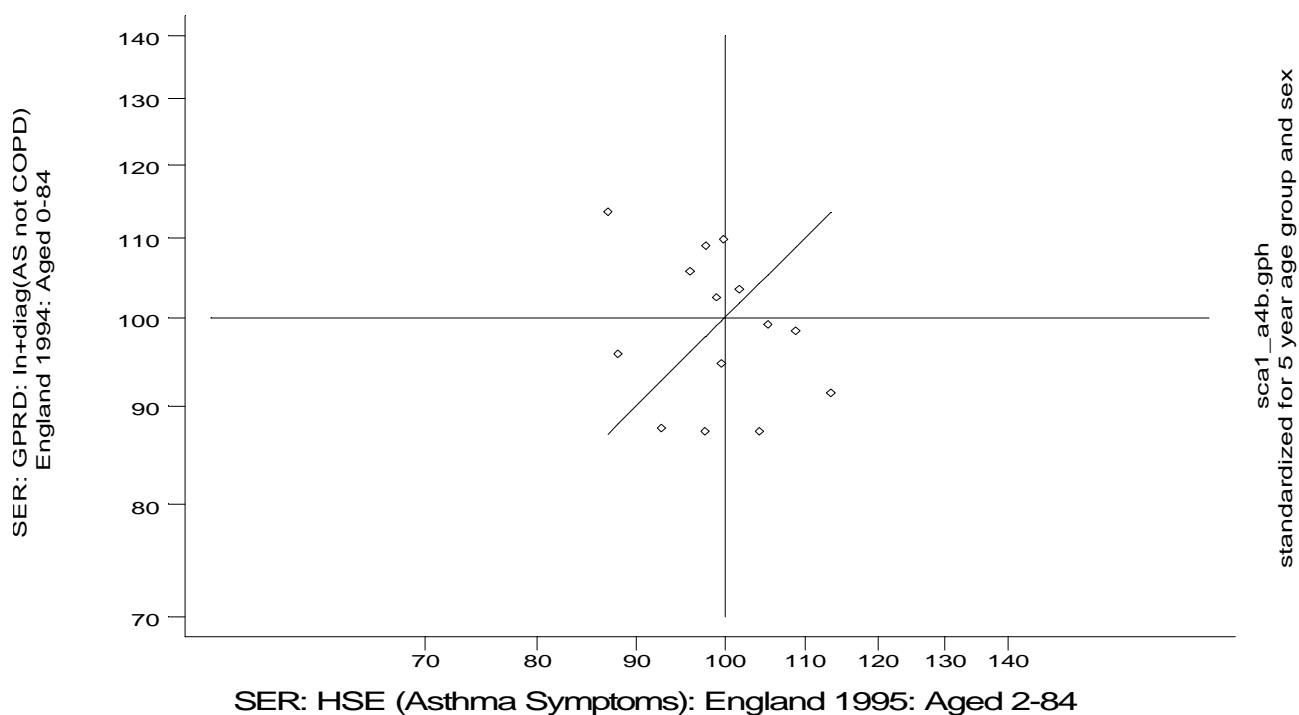
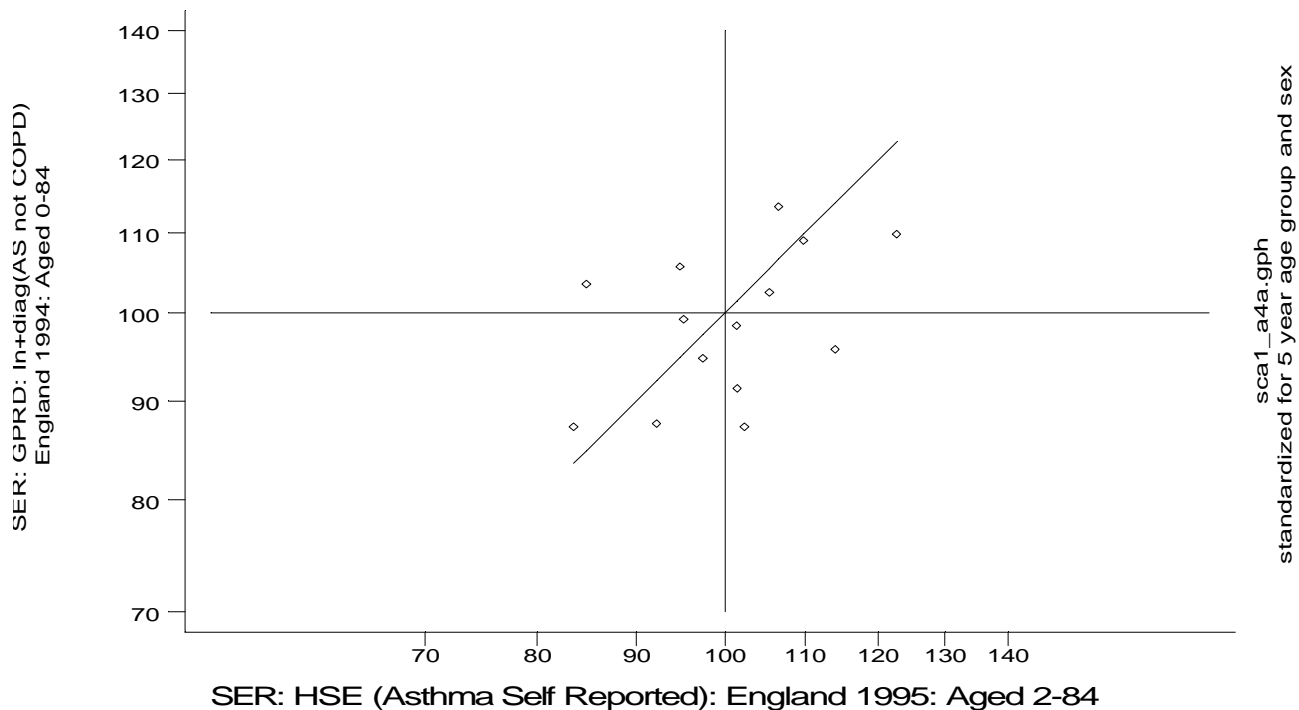
a2: MORTALITY (0-84) vs. GPRD (0-84)
Number of obs = 14
Spearman's rho = -0.4989
Test of Ho: ms1_1 and gsc1_8 independent
Pr > |t| = 0.0694

a3: MORTALITY (0-84) vs. HES (0-84)
Number of obs = 14
Spearman's rho = 0.4813
Test of Ho: ms1_1 and hsl_1 independent
Pr > |t| = 0.0814

A6 Asthma standard output graphs

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

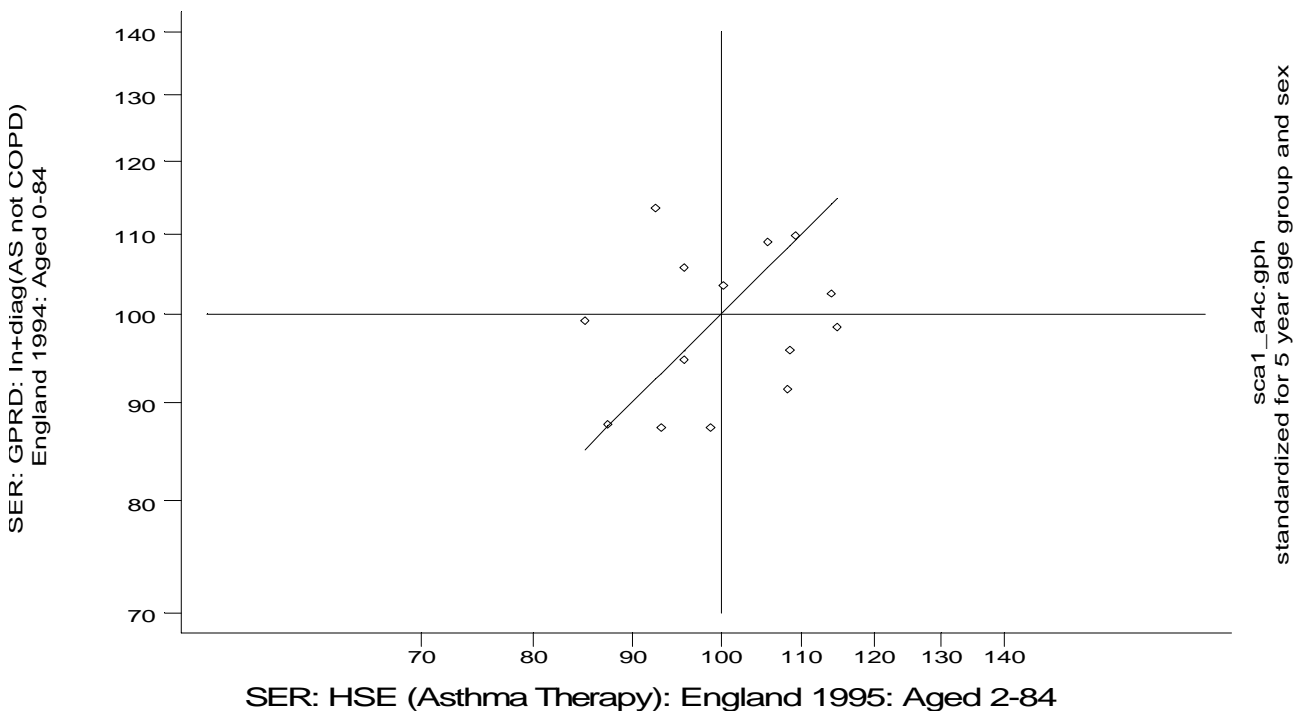
- regional comparisons between HSE95, GPRD, HS and mortality, England 1994, ages 0-84



A6 Asthma standard output graphs

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

- regional comparisons between HSE95, GPRD, HS and mortality, England 1994, ages 0-84



a4a: GPRD (0-84) vs. HSE (2-84){Asthma Self Reported}
Number of obs = 14
Spearman's rho = 0.4549
Test of Ho: gsc1_8 and ssl_1 independent
Pr > |t| = 0.1022

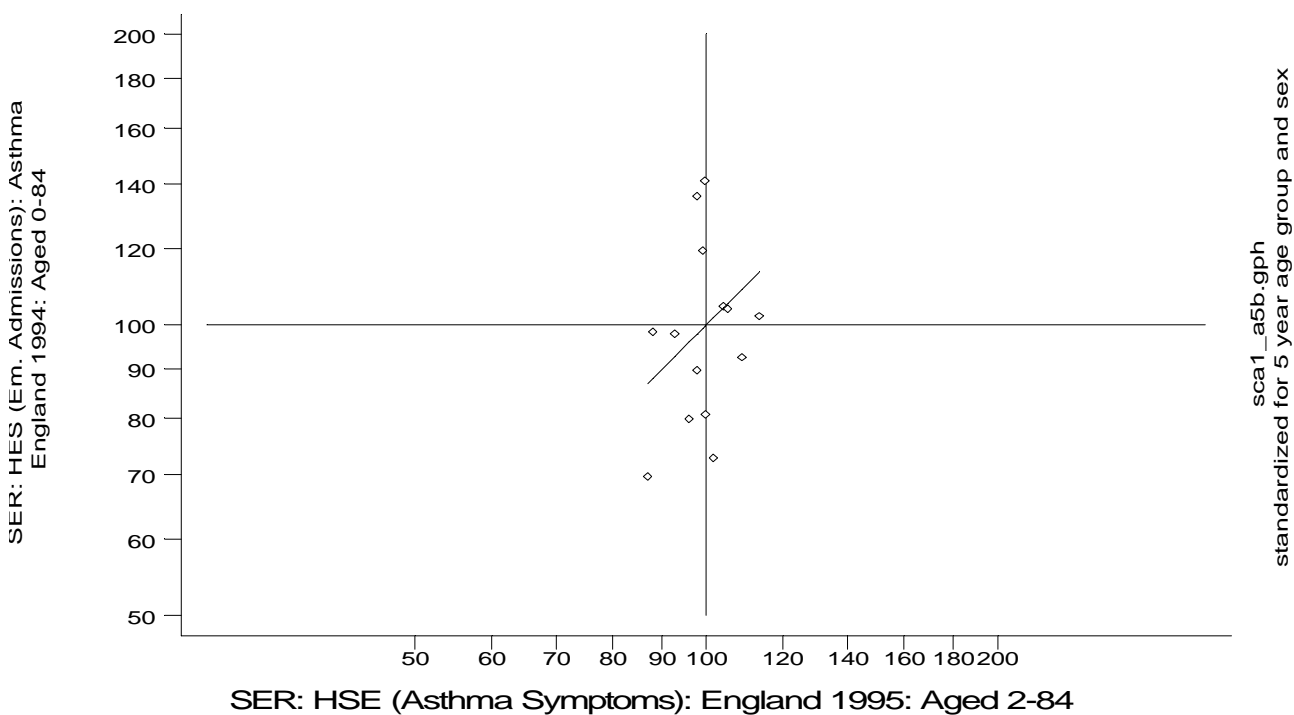
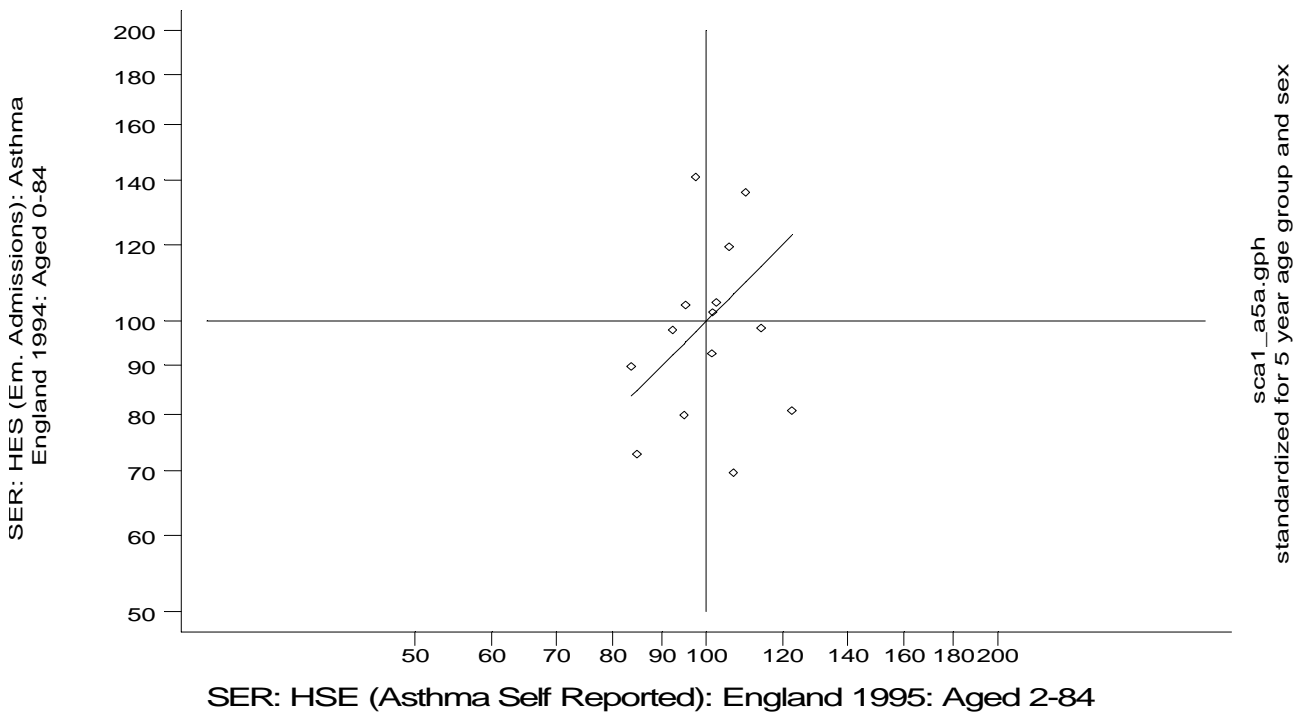
a4b: GPRD (0-84) vs. HSE (2-84){Asthma Symptoms}
Number of obs = 14
Spearman's rho = -0.2044
Test of Ho: gsc1_8 and ssl_4 independent
Pr > |t| = 0.4833

a4c: GPRD (0-84) vs. HSE (2-84){Asthma Therapy}
Number of obs = 14
Spearman's rho = 0.1473
Test of Ho: gsc1_8 and ssl_7 independent
Pr > |t| = 0.6154

A6 Asthma standard output graphs

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

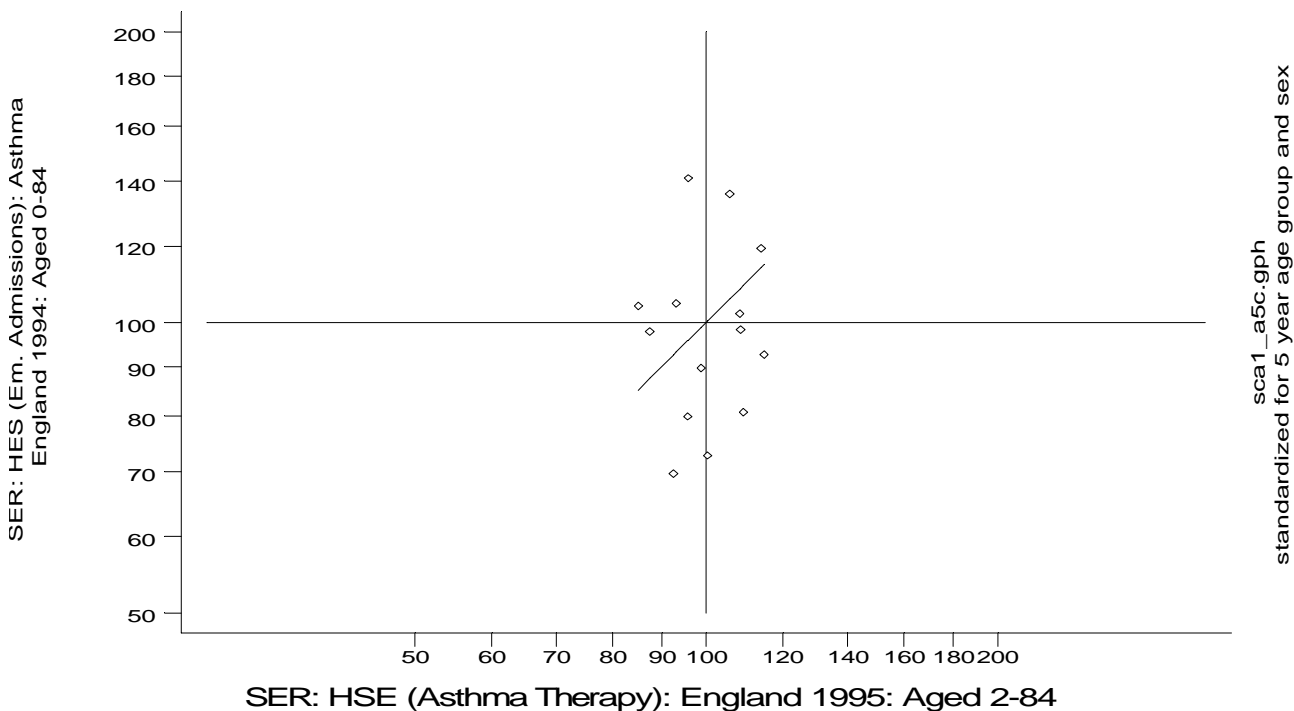
- regional comparisons between HSE95, GPRD, HS and mortality, England 1994, ages 0-84



A6 Asthma standard output graphs

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

- regional comparisons between HSE95, GPRD, HS and mortality, England 1994, ages 0-84



a5a: HES (0-84) vs. HSE (2-84) {Asthma Self Reported}
Number of obs = 14
Spearman's rho = 0.2132
Test of Ho: hsl_1 and ssl_1 independent
Pr > |t| = 0.4643

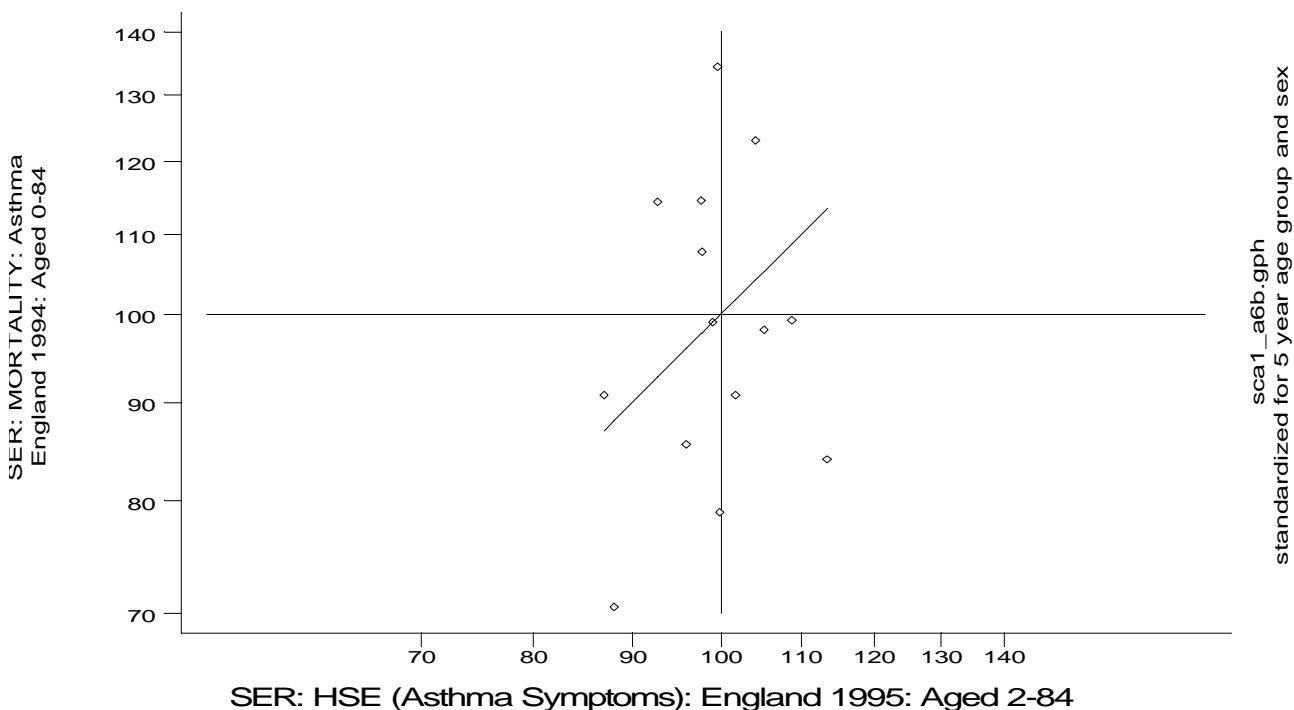
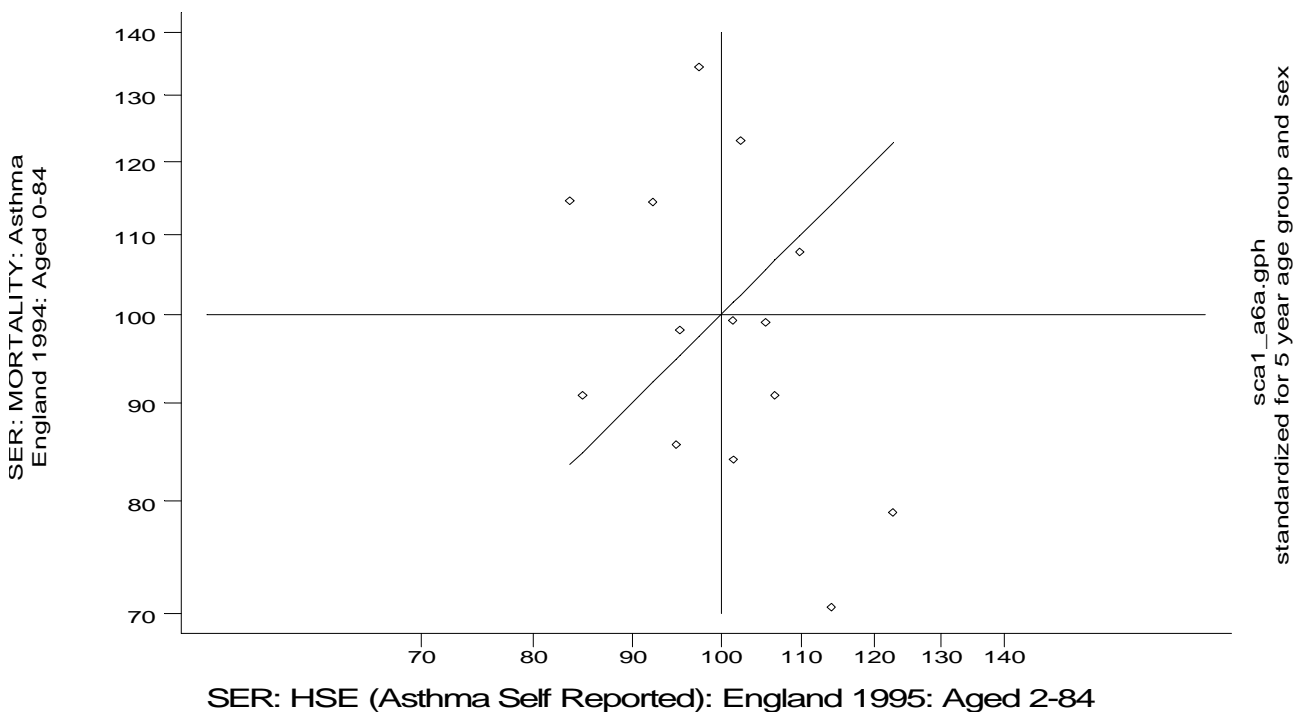
a5b: HES (0-84) vs. HSE (2-84) {Asthma Symptoms}
Number of obs = 14
Spearman's rho = 0.2747
Test of Ho: hsl_1 and ssl_4 independent
Pr > |t| = 0.3418

a5c: HES (0-84) vs. HSE (2-84) {Asthma Therapy}
Number of obs = 14
Spearman's rho = 0.0725
Test of Ho: hsl_1 and ssl_7 independent
Pr > |t| = 0.8054

A6 Asthma standard output graphs

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

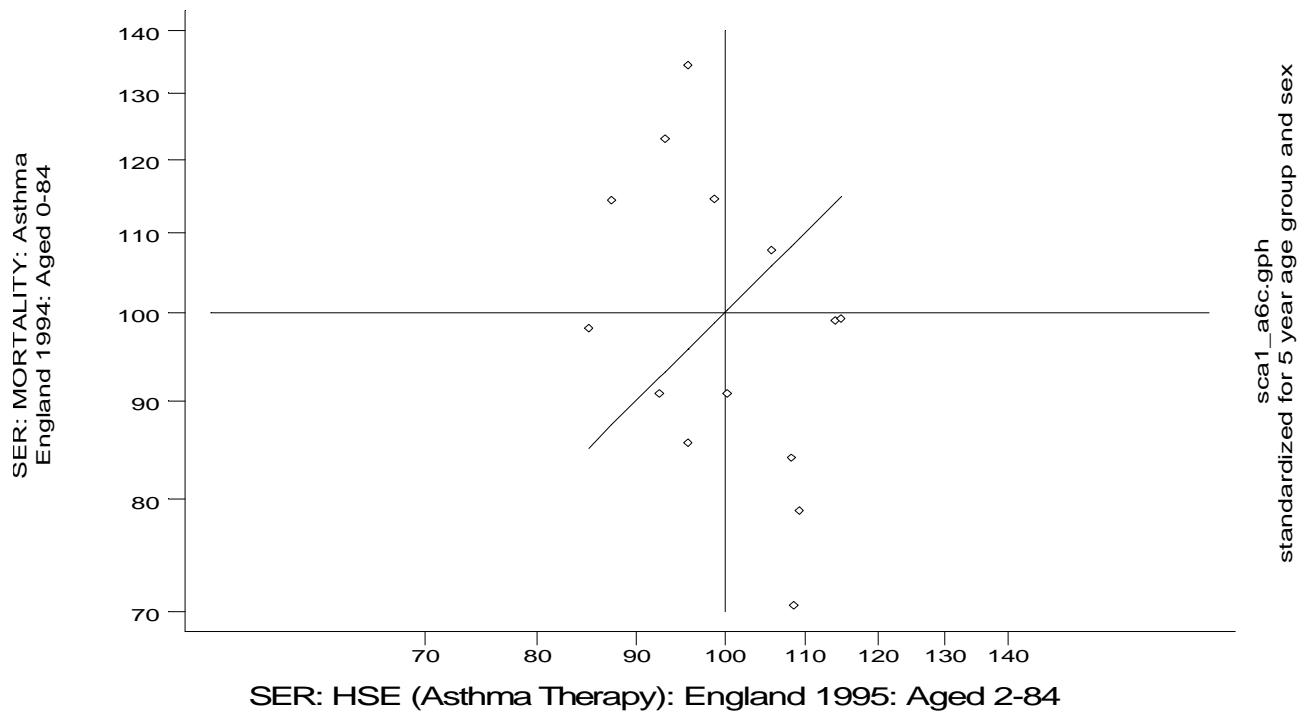
- regional comparisons between HSE95, GPRD, HS and mortality, England 1994, ages 0-84



A6 Asthma standard output graphs

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

- regional comparisons between HSE95, GPRD, HS and mortality, England 1994, ages 0-84



a6a: MORT (0-84) vs. HSE (2-84) {Asthma Self Reported}
Number of obs = 14
Spearman's rho = -0.3802
Test of Ho: msl_1 and ssl_1 independent
Pr > |t| = 0.1799

a6b: MORT (0-84) vs. HSE (2-84) {Asthma Symptoms}
Number of obs = 14
Spearman's rho = 0.0505
Test of Ho: msl_1 and ssl_4 independent
Pr > |t| = 0.8637

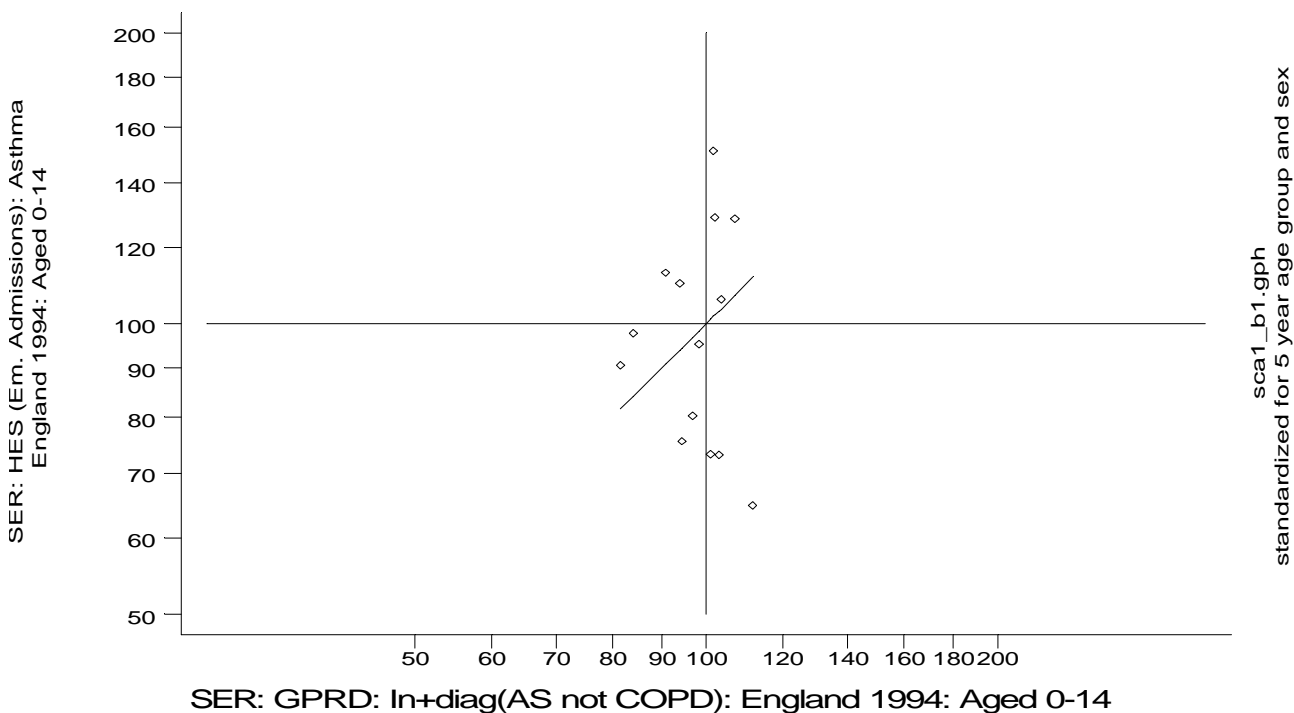
a6c: MORT (0-84) vs. HSE (2-84) {Asthma Therapy}
Number of obs = 14
Spearman's rho = -0.3319
Test of Ho: msl_1 and ssl_7 independent
Pr > |t| = 0.2464

A6 Asthma standard output graphs

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

- regional comparisons between HSE95, GPRD, HS and mortality, England 1994, ages 0-84

“CHILDREN vs. CHILDREN”



CHILDREN vs. CHILDREN

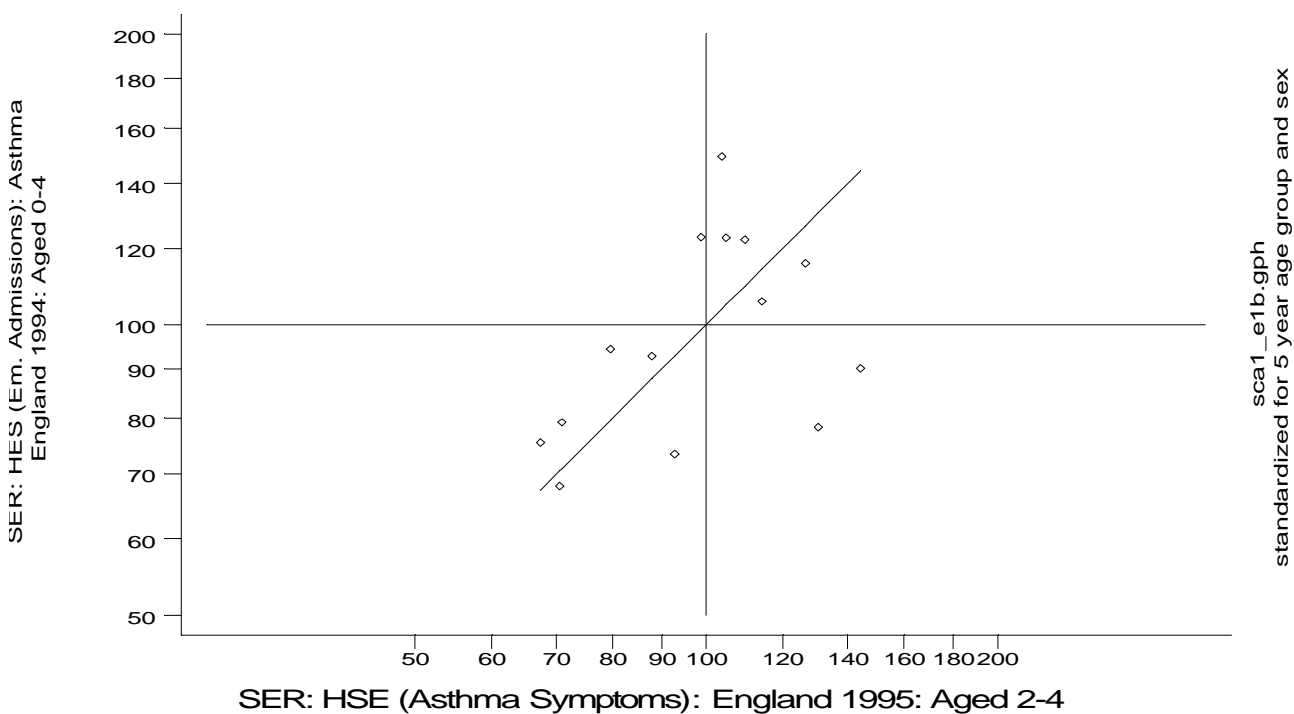
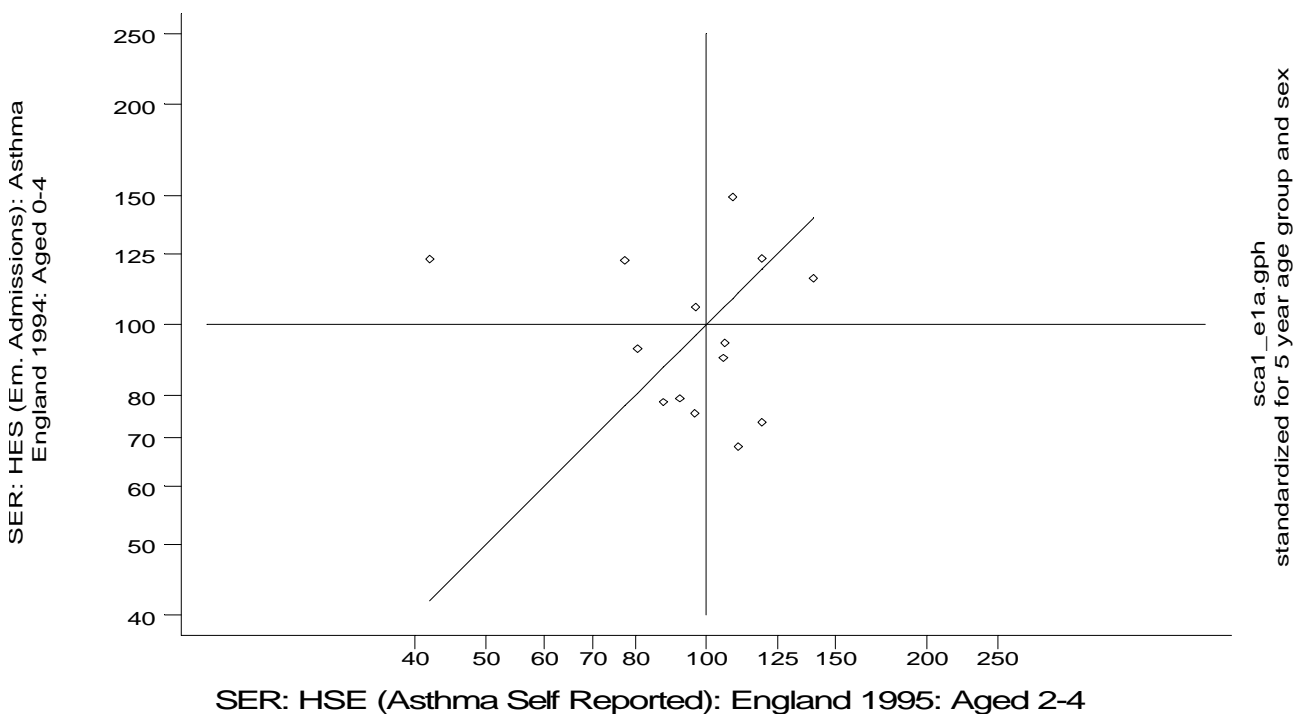
b1: HES (0-14) vs. GPRD (0-14)
Number of obs = 14
Spearman's rho = -0.0593
Test of Ho: hs3_1 and gsc3_8 independent
Pr > |t| = 0.8403

A6 Asthma standard output graphs

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

- regional comparisons between HSE95, GPRD, HS and mortality, England 1994, ages 0-84

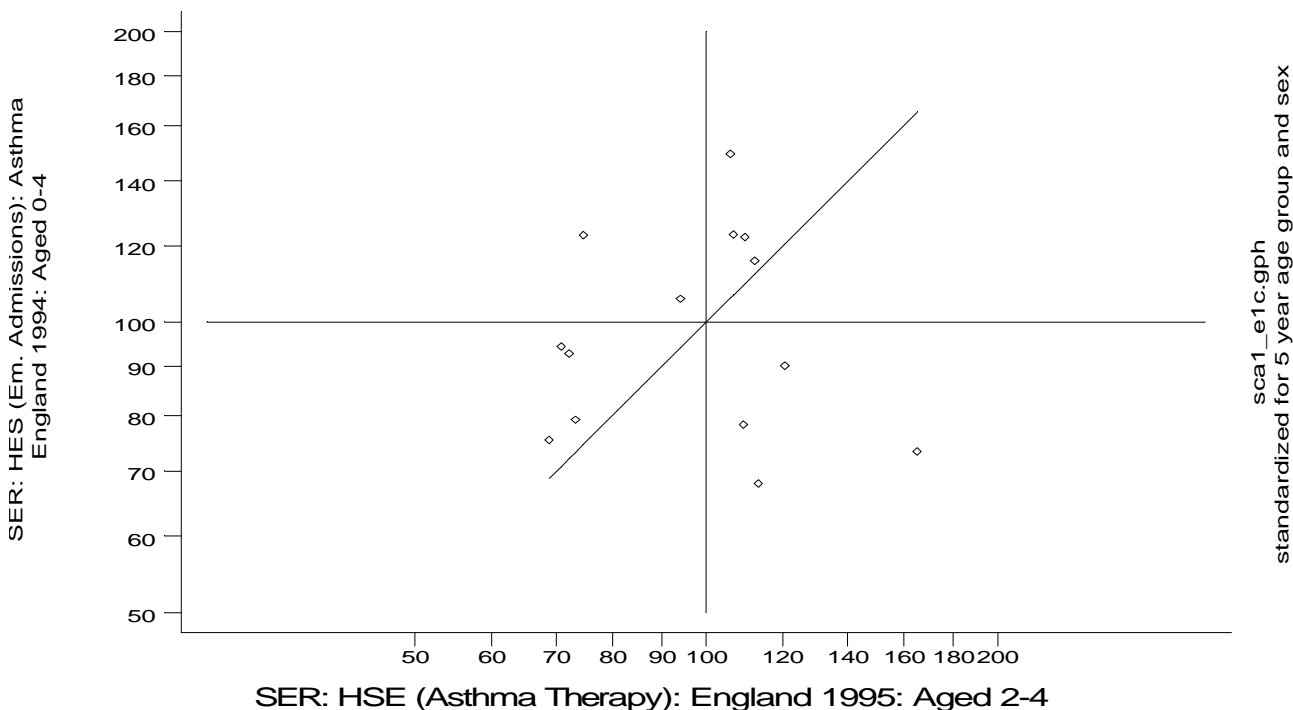
“PRE-SCHOOL AGE vs. PRE-SCHOOL AGE”



A6 Asthma standard output graphs

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

- regional comparisons between HSE95, GPRD, HS and mortality, England 1994, ages 0-84



PRE-SCHOOL AGE vs. PRE-SCHOOL AGE

ela: HES (0-4) vs. HSE (2-4) {Asthma Self Reported}
 Number of obs = 14
 Spearman's rho = -0.0286
 Test of Ho: hs2_1 and ss2_1 independent
 Pr > |t| = 0.9228

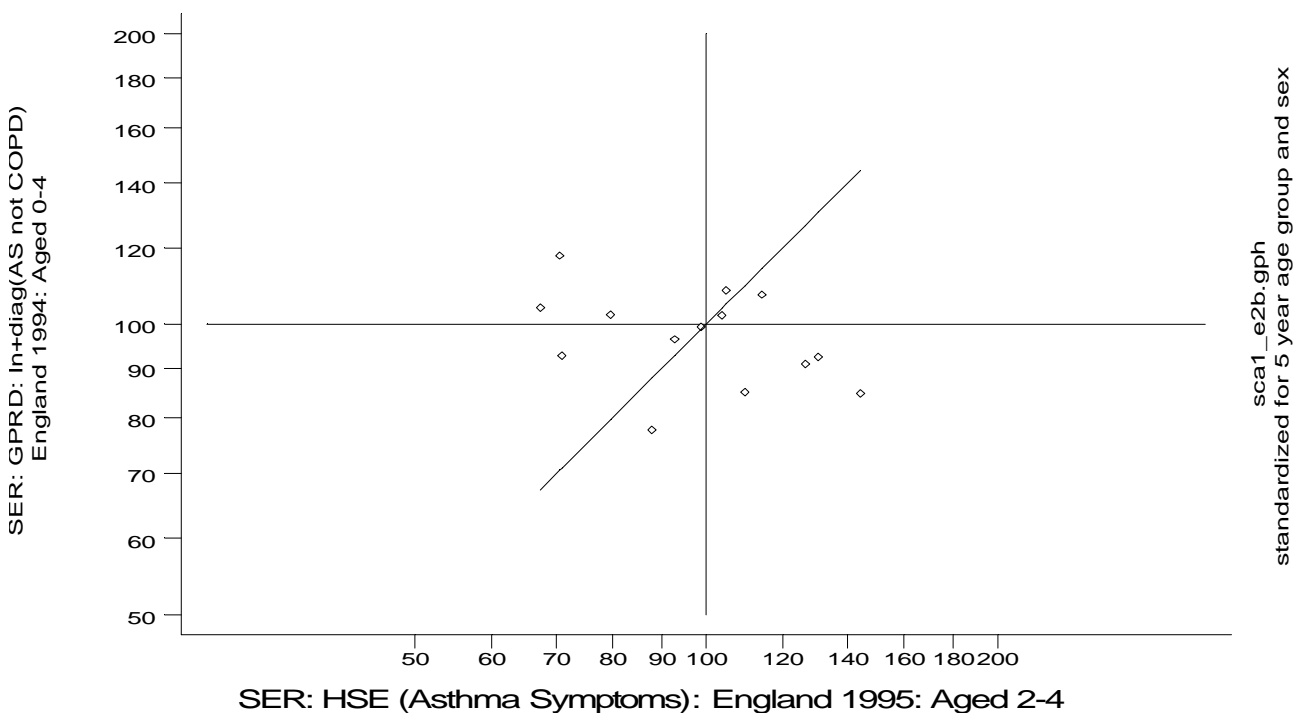
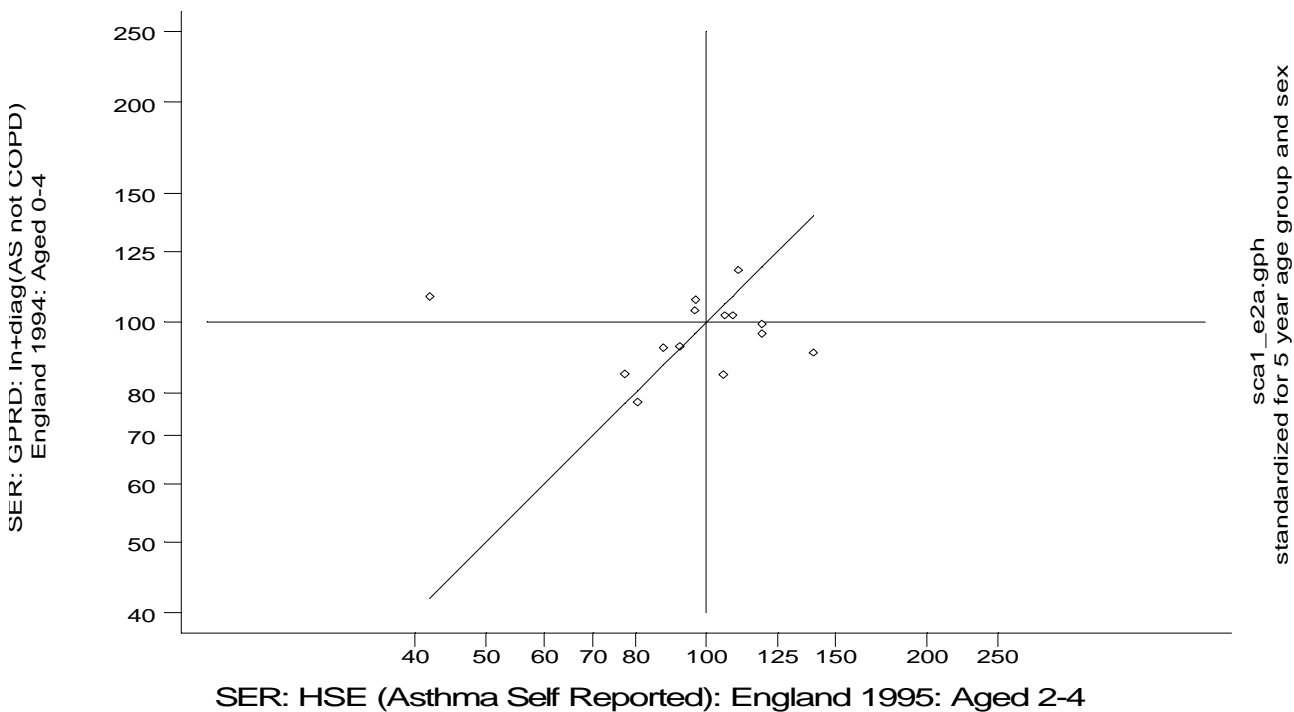
elb: HES (0-4) vs. HSE (2-4) {Asthma Symptoms}
 Number of obs = 14
 Spearman's rho = 0.3846
 Test of Ho: hs2_1 and ss2_4 independent
 Pr > |t| = 0.1745

elc: HES (0-4) vs. HSE (2-4) {Asthma Therapy}
 Number of obs = 14
 Spearman's rho = -0.1648
 Test of Ho: hs2_1 and ss2_7 independent
 Pr > |t| = 0.5733

A6 Asthma standard output graphs

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

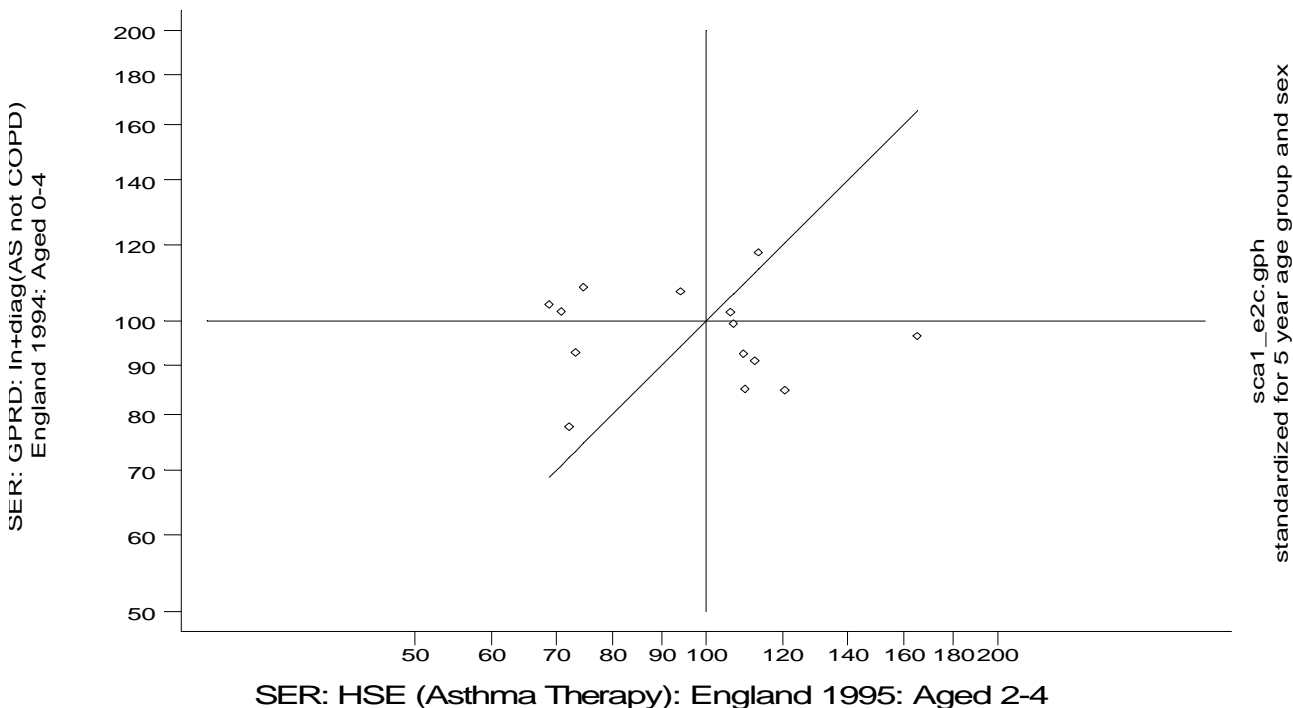
- regional comparisons between HSE95, GPRD, HS and mortality, England 1994, ages 0-84



A6 Asthma standard output graphs

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

- regional comparisons between HSE95, GPRD, HS and mortality, England 1994, ages 0-84



e2a: GPRD (0-4) vs. HSE (2-4) {Asthma Self Reported}
Number of obs = 14
Spearman's rho = 0.1253
Test of Ho: gsc2_8 and ss2_1 independent
Pr > |t| = 0.6696

e2b: GPRD (0-4) vs. HSE (2-4) {Asthma Symptoms}
Number of obs = 14
Spearman's rho = -0.4198
Test of Ho: gsc2_8 and ss2_4 independent
Pr > |t| = 0.1351

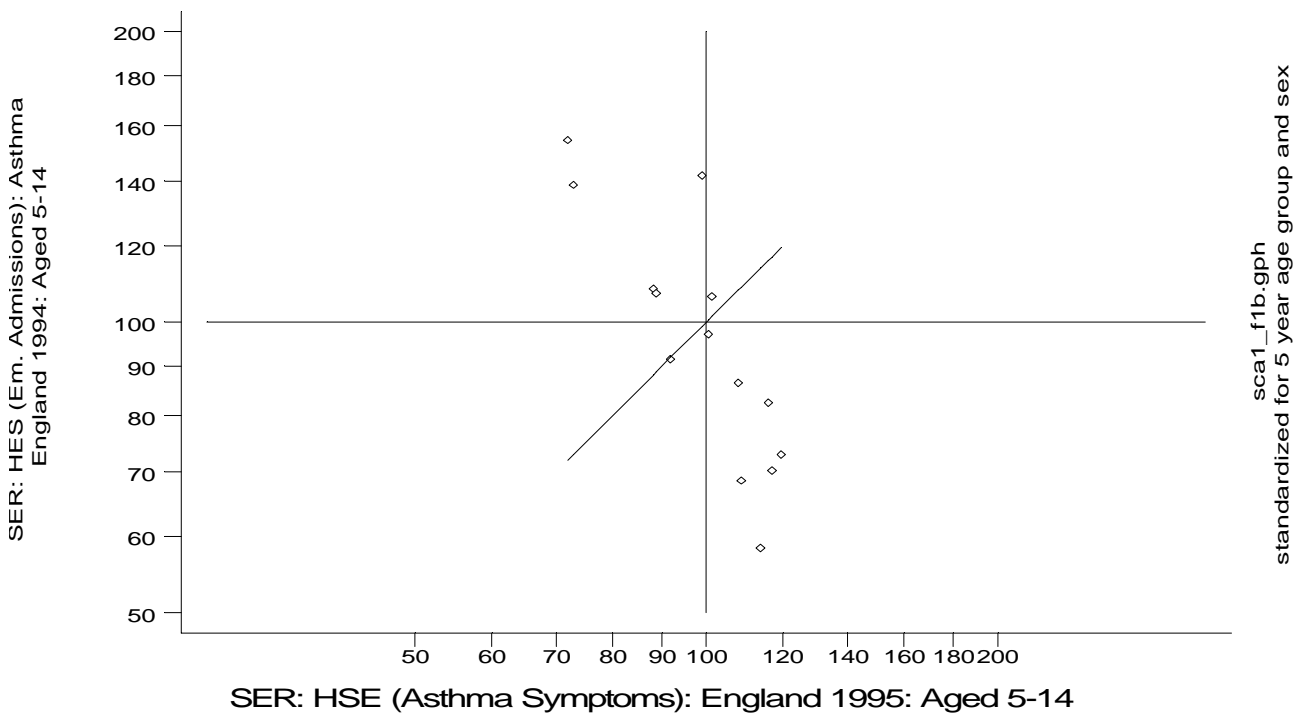
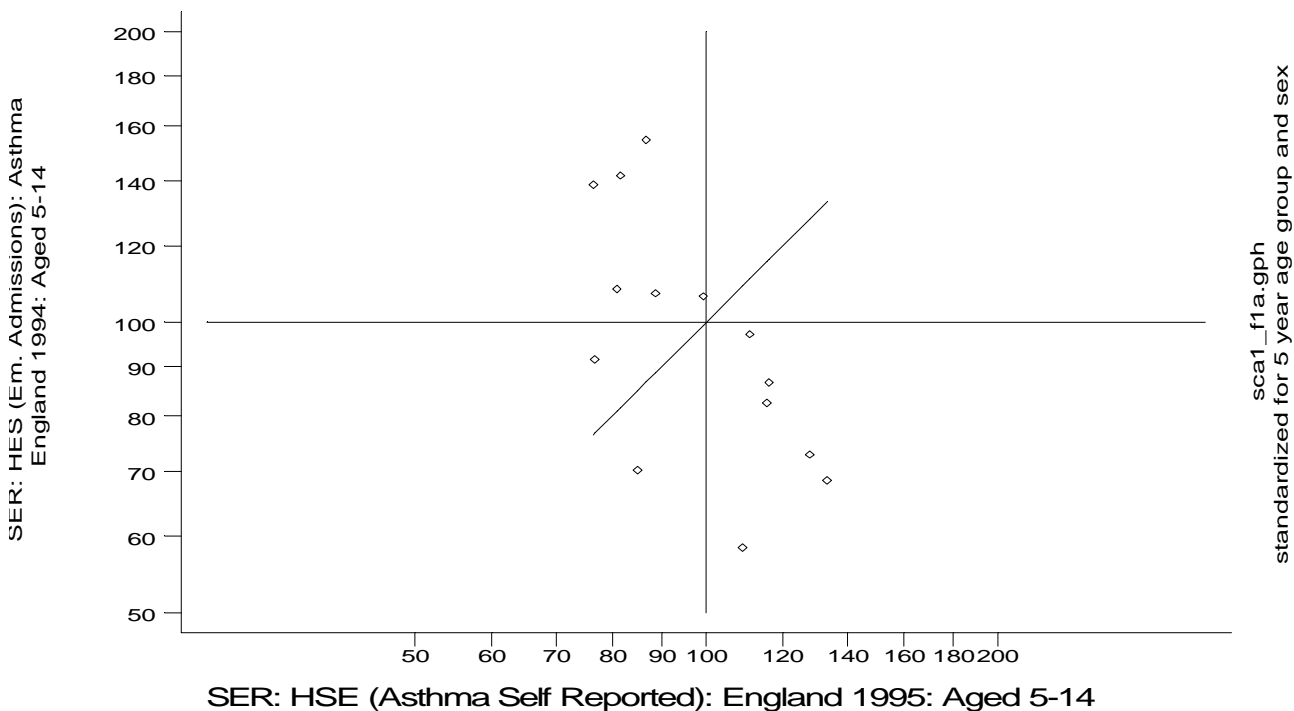
e2c: GPRD (0-4) vs. HSE (2-4) {Asthma Therapy}
Number of obs = 14
Spearman's rho = -0.2396
Test of Ho: gsc2_8 and ss2_7 independent
Pr > |t| = 0.4094

A6 Asthma standard output graphs

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

- regional comparisons between HSE95, GPRD, HS and mortality, England 1994, ages 0-84

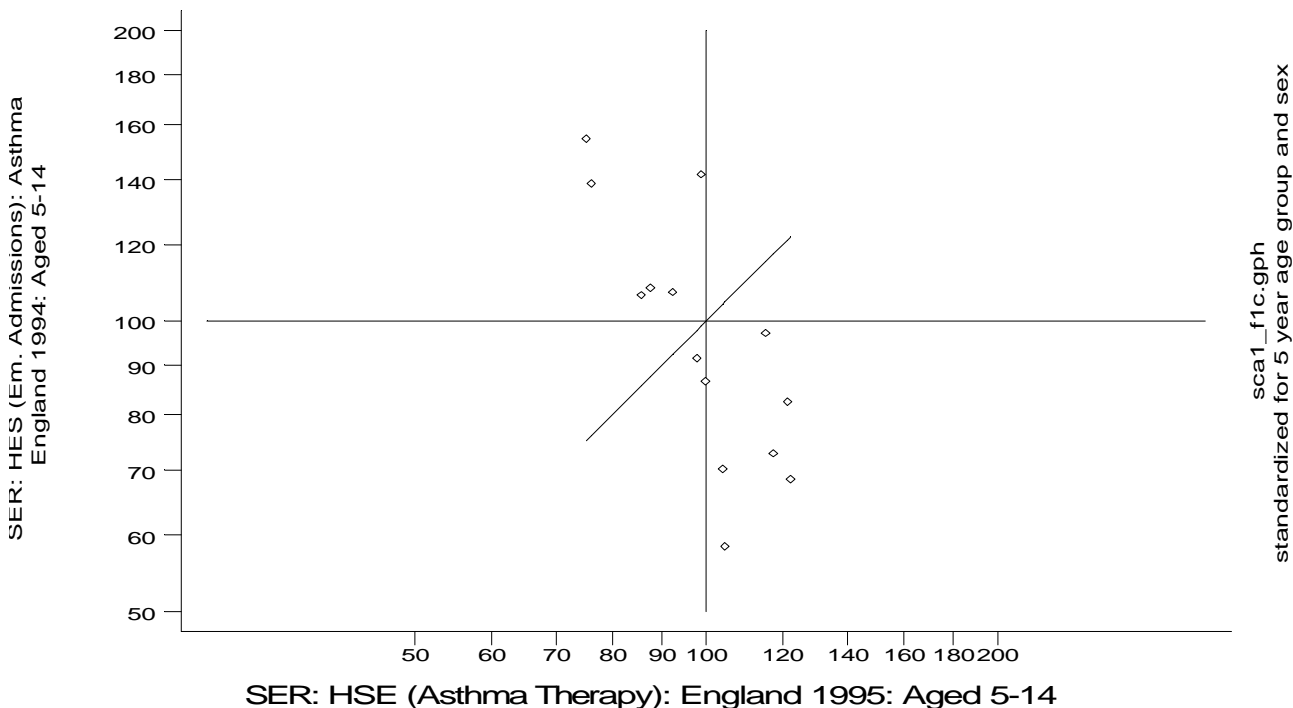
“SCHOOL AGE vs. SCHOOL AGE”



A6 Asthma standard output graphs

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

- regional comparisons between HSE95, GPRD, HS and mortality, England 1994, ages 0-84



SCHOOL AGE vs. SCHOOL AGE

fla: HES (5-14) vs. HSE (5-14) {Asthma Self Reported}
 Number of obs = 14
 Spearman's rho = -0.6132
 Test of Ho: hs4_1 and ss4_1 independent
 Pr > |t| = 0.0197

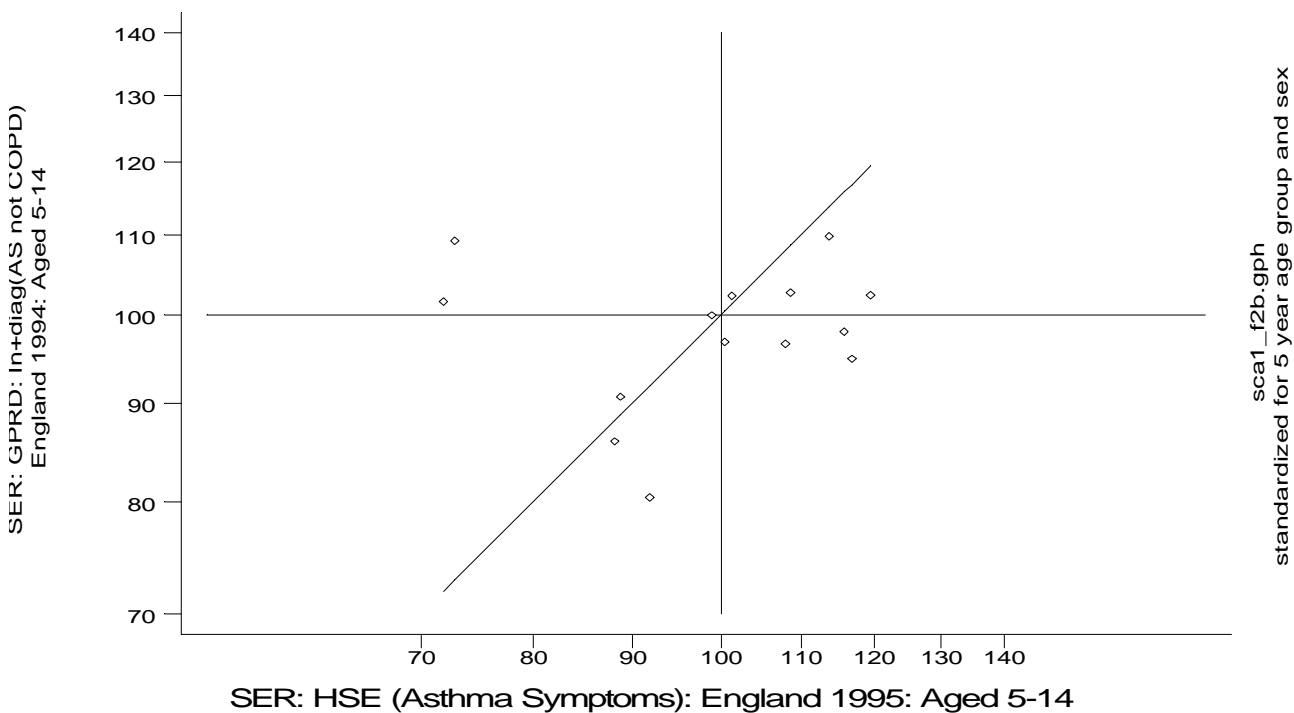
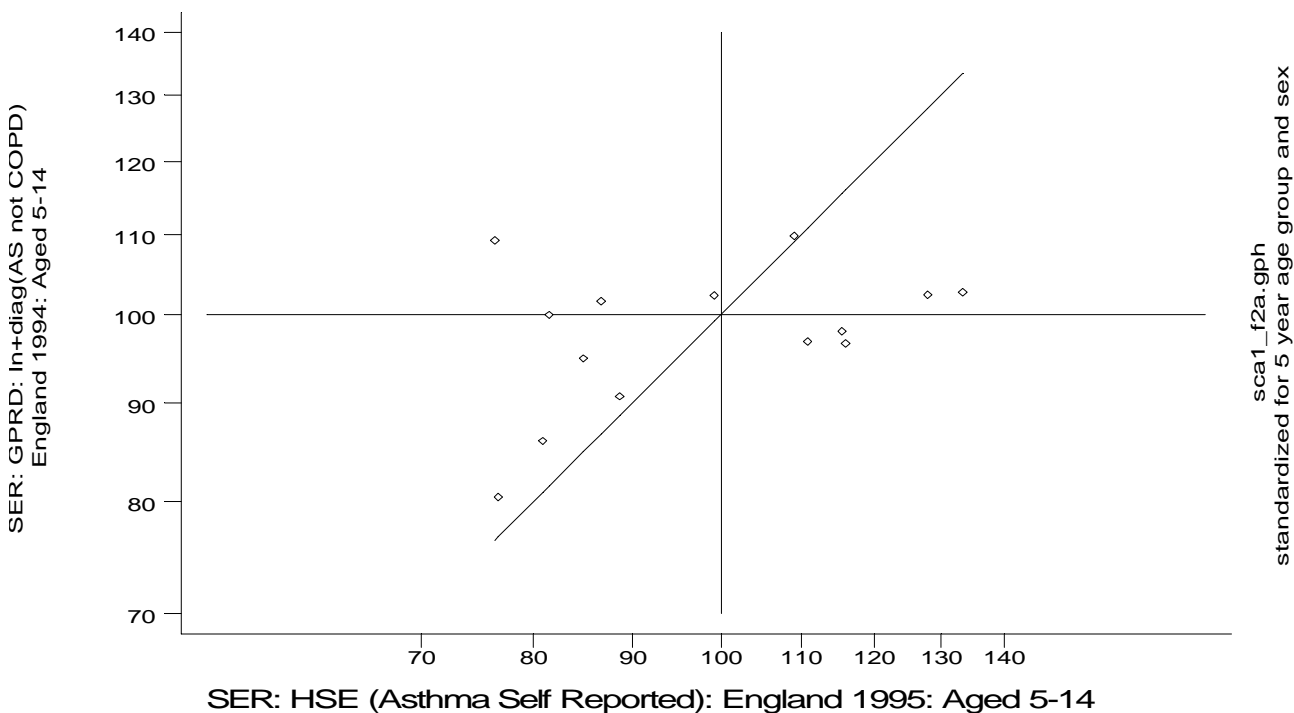
flb: HES (5-14) vs. HSE (5-14) {Asthma Symptoms}
 Number of obs = 14
 Spearman's rho = -0.8593
 Test of Ho: hs4_1 and ss4_4 independent
 Pr > |t| = 0.0001

flc: HES (5-14) vs. HSE (5-14) {Asthma Therapy}
 Number of obs = 14
 Spearman's rho = -0.7978
 Test of Ho: hs4_1 and ss4_7 independent
 Pr > |t| = 0.0006

A6 Asthma standard output graphs

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

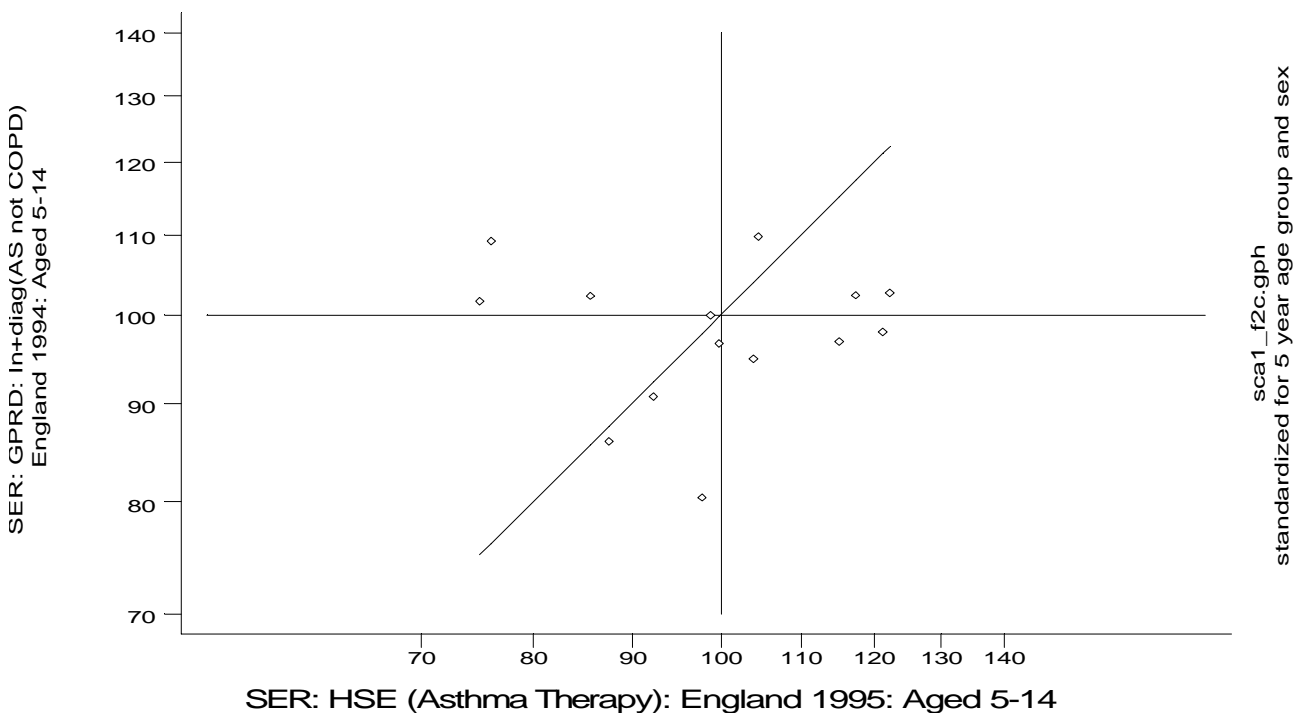
- regional comparisons between HSE95, GPRD, HS and mortality, England 1994, ages 0-84



A6 Asthma standard output graphs

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

- regional comparisons between HSE95, GPRD, HS and mortality, England 1994, ages 0-84



f2a: GPRD (5-14) vs. HSE (5-14) {Asthma Self Reported}
 Number of obs = 14
 Spearman's rho = 0.3275
 Test of Ho: gsc4_8 and ss4_1 independent
 Pr > |t| = 0.2531

f2b: GPRD (5-14) vs. HSE (5-14) {Asthma Symptoms}
 Number of obs = 14
 Spearman's rho = 0.2176
 Test of Ho: gsc4_8 and ss4_4 independent
 Pr > |t| = 0.4549

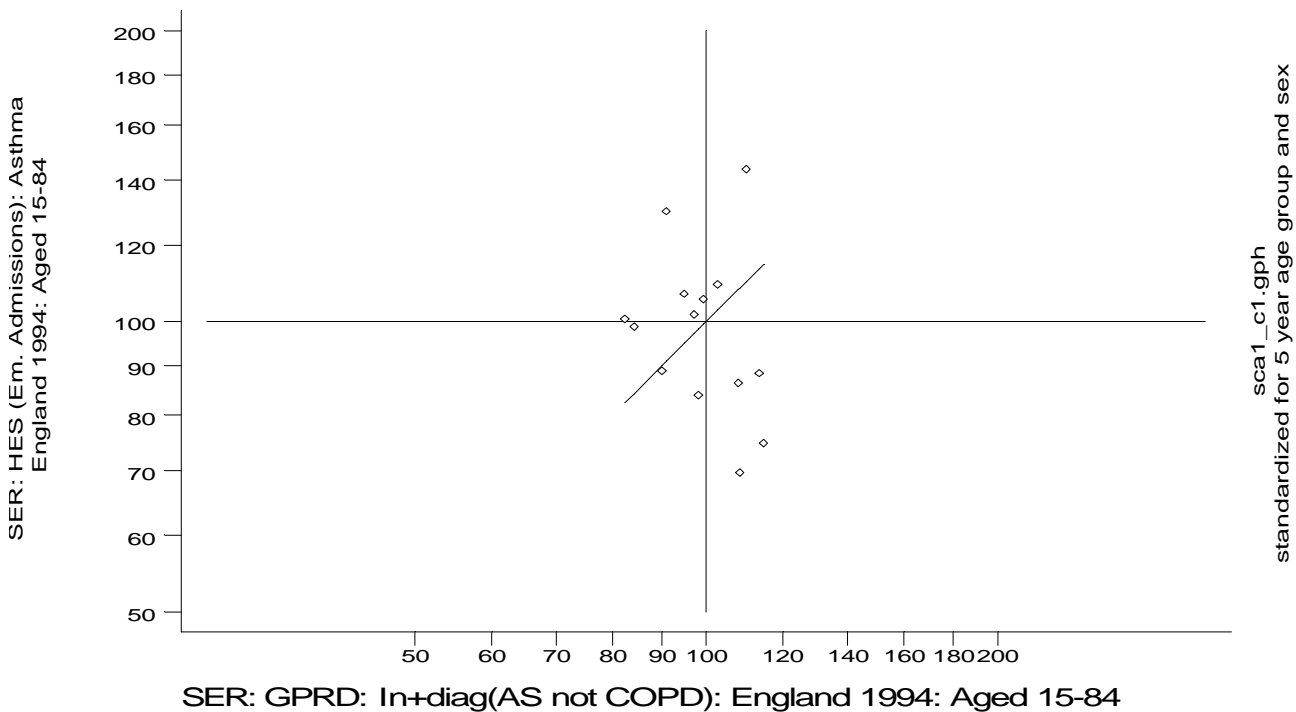
f2c: GPRD (5-14) vs. HSE (5-14) {Asthma Therapy}
 Number of obs = 14
 Spearman's rho = 0.1560
 Test of Ho: gsc4_8 and ss4_7 independent
 Pr > |t| = 0.5942

A6 Asthma standard output graphs

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

- regional comparisons between HSE95, GPRD, HS and mortality, England 1994, ages 0-84

“ADULTS vs. ADULTS”



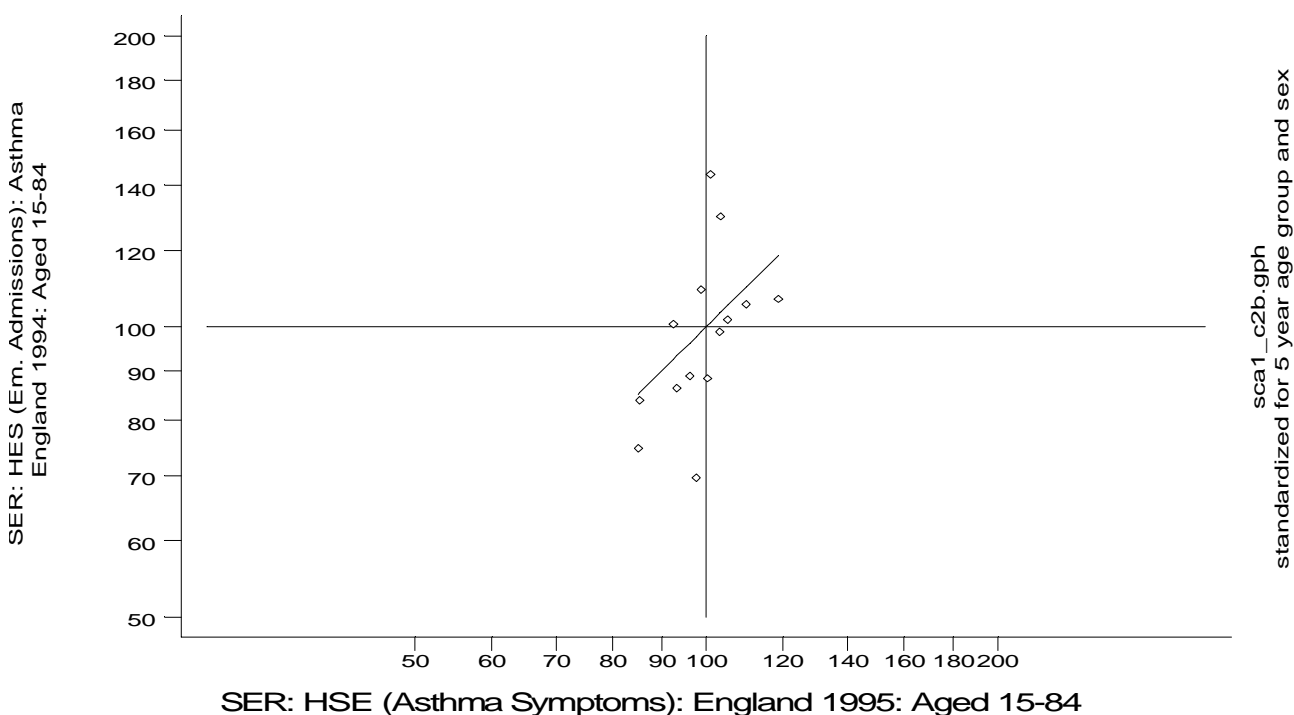
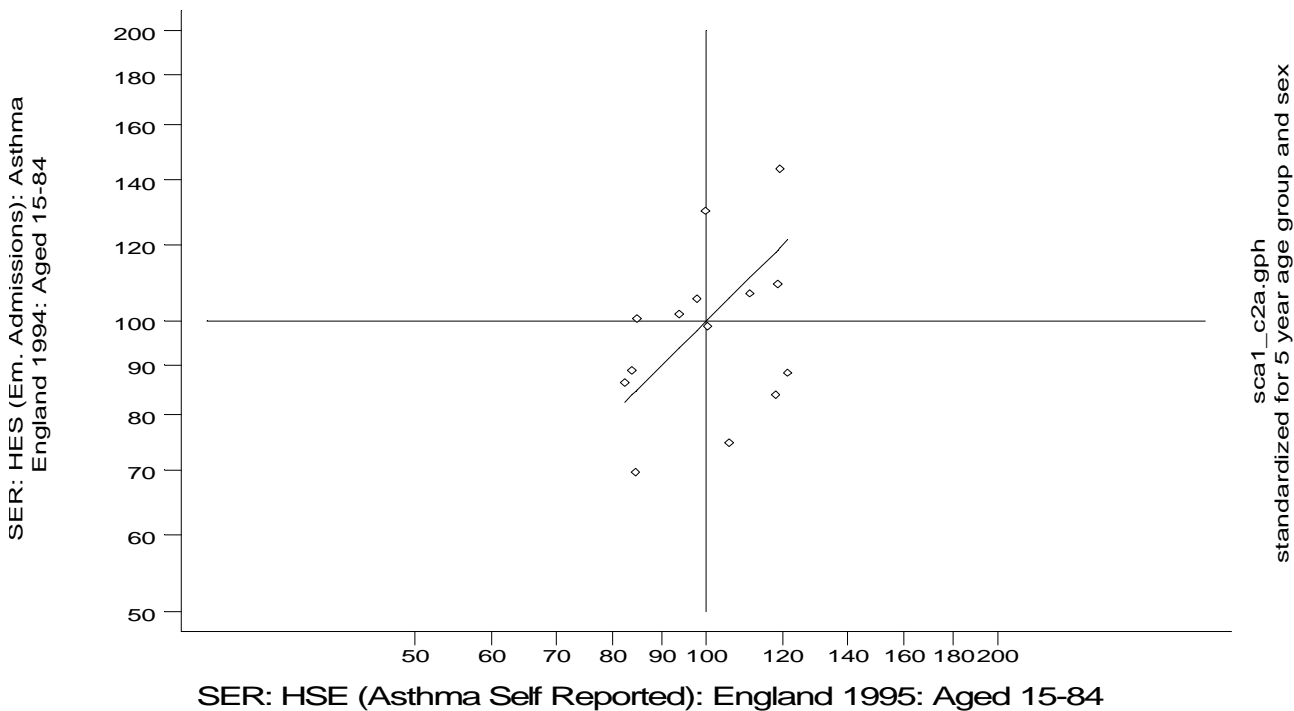
ADULTS vs. ADULTS

```
c1: HES (15-84) vs. GPRD (15-84)
Number of obs =      14
Spearman's rho =    -0.2879
Test of Ho: hs5_1 and gsc5_8 independent
Pr > |t| =          0.3182
```

A6 Asthma standard output graphs

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

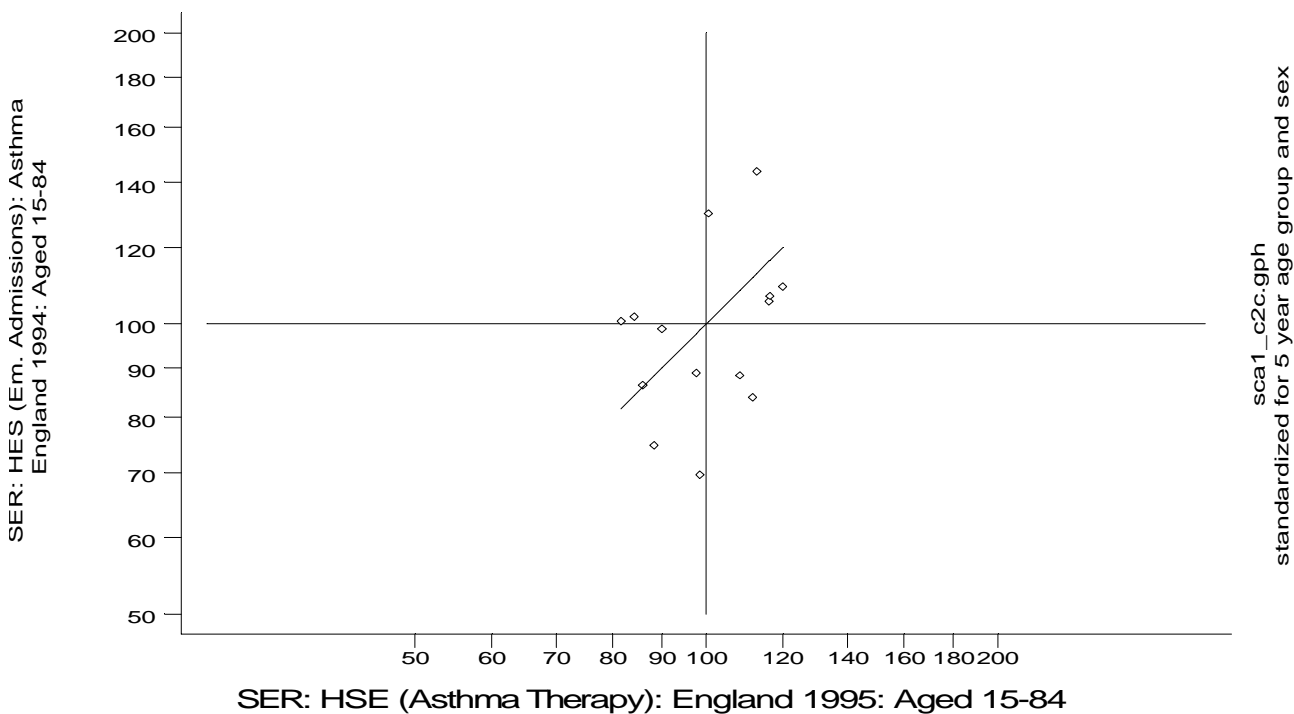
- regional comparisons between HSE95, GPRD, HS and mortality, England 1994, ages 0-84



A6 Asthma standard output graphs

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

- regional comparisons between HSE95, GPRD, HS and mortality, England 1994, ages 0-84



c2a: HES (15-84) vs. HSE (15-84) {Asthma Self Reported}
 Number of obs = 14
 Spearman's rho = 0.3187
 Test of Ho: hs5_1 and ss5_1 independent
 Pr > |t| = 0.2668

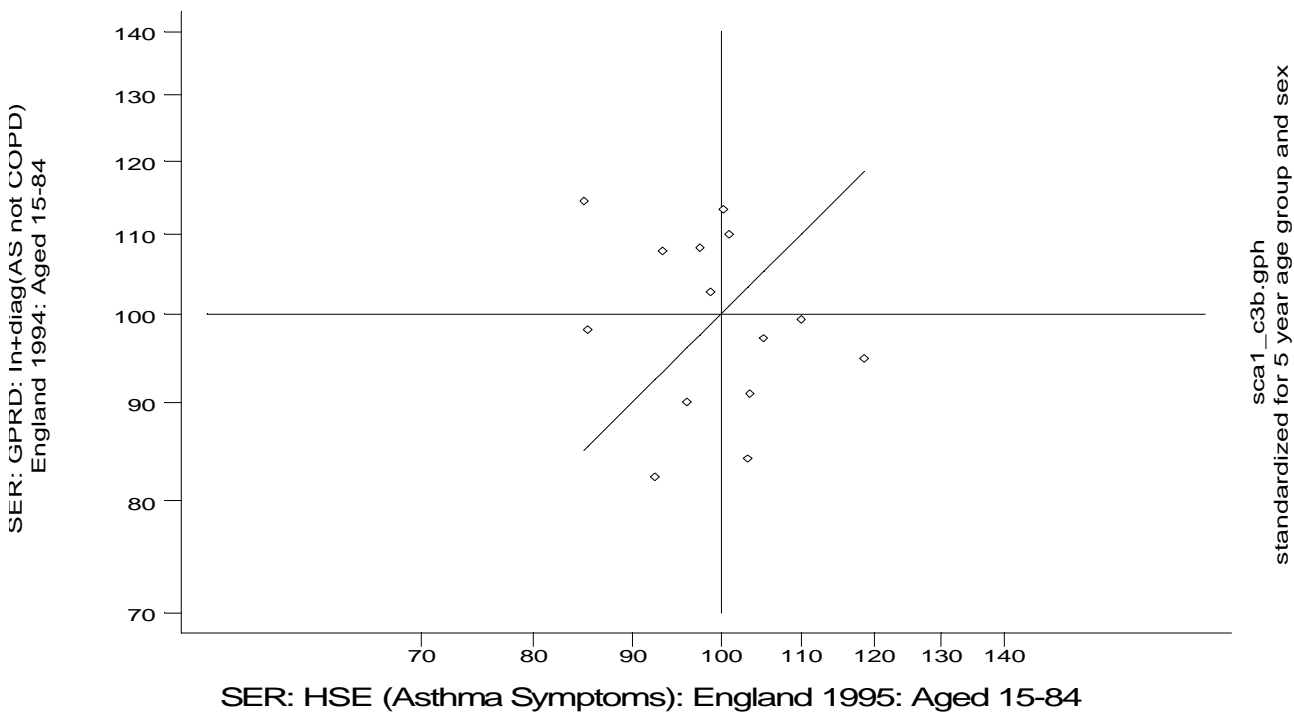
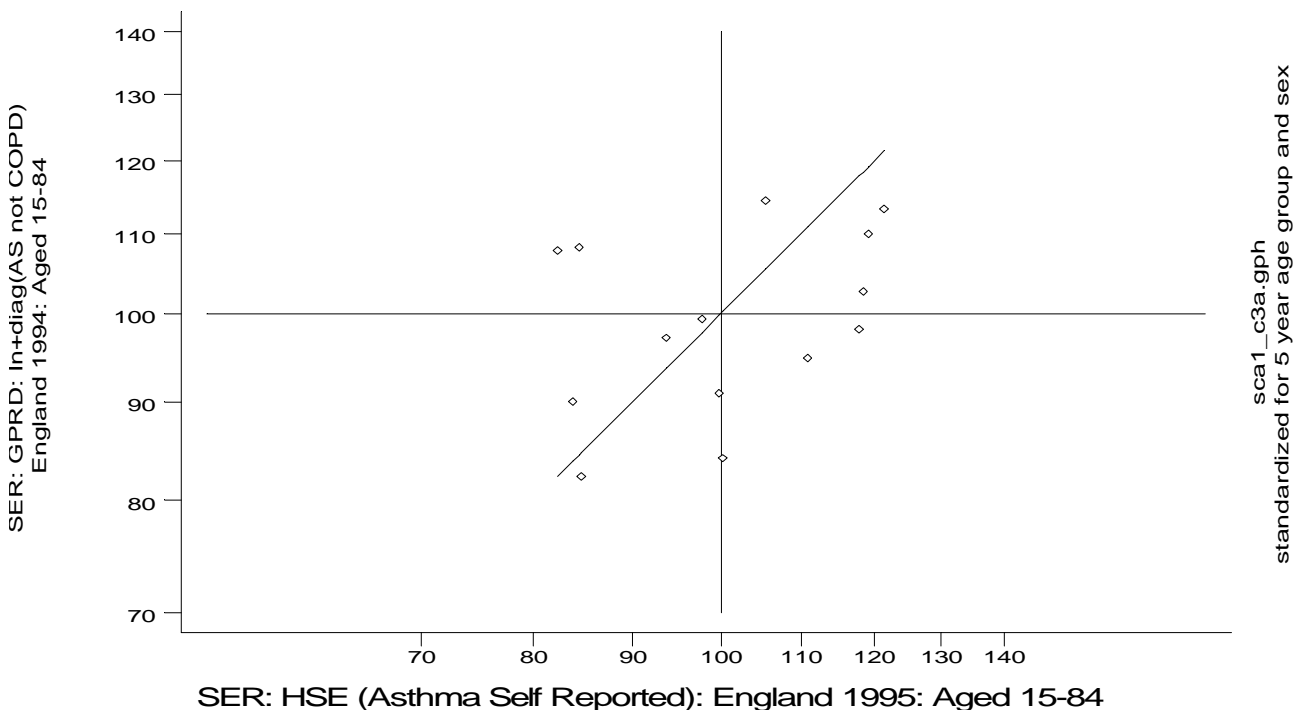
c2b: HES (15-84) vs. HSE (15-84) {Asthma Symptoms}
 Number of obs = 14
 Spearman's rho = 0.6659
 Test of Ho: hs5_1 and ss5_4 independent
 Pr > |t| = 0.0093

c2c: HES (15-84) vs. HSE (15-84) {Asthma Therapy}
 Number of obs = 14
 Spearman's rho = 0.4418
 Test of Ho: hs5_1 and ss5_7 independent
 Pr > |t| = 0.1138

A6 Asthma standard output graphs

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

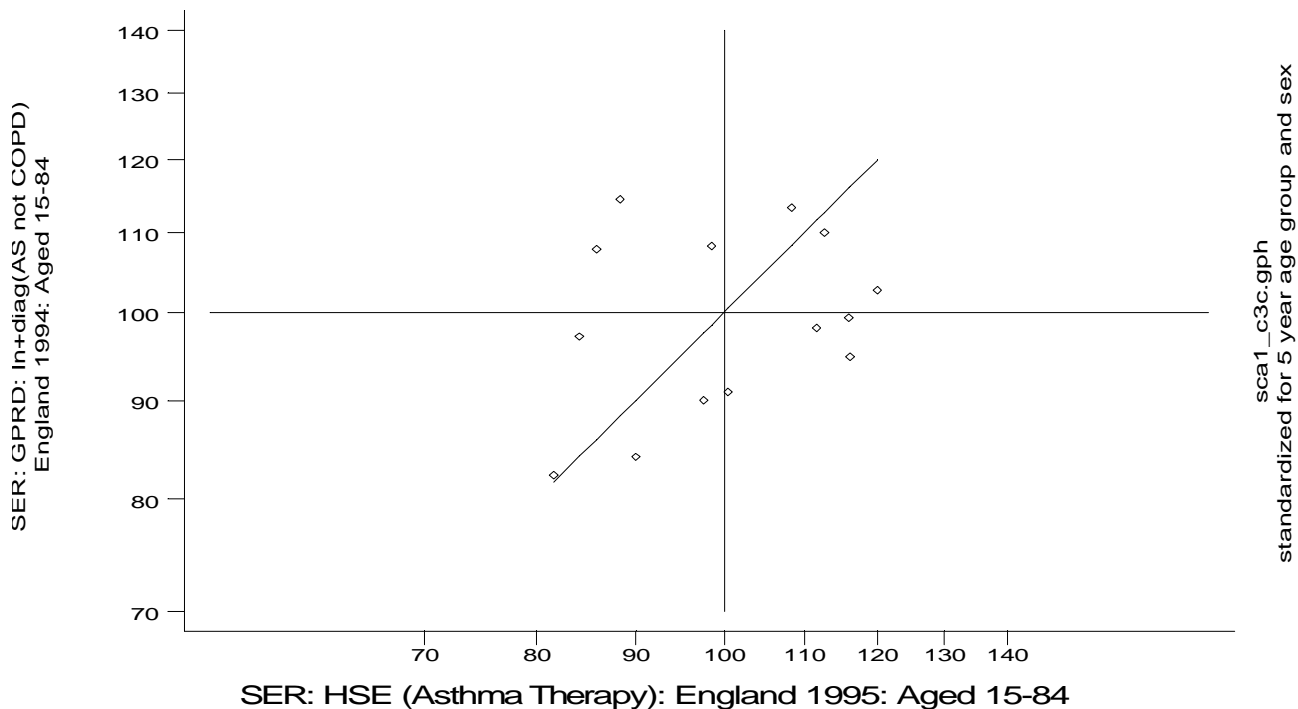
- regional comparisons between HSE95, GPRD, HS and mortality, England 1994, ages 0-84



A6 Asthma standard output graphs

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

- regional comparisons between HSE95, GPRD, HS and mortality, England 1994, ages 0-84



c3a: GPRD (15-84) vs. HSE (15-84) {Asthma Self Reported}
Number of obs = 14
Spearman's rho = 0.3802
Test of Ho: gsc5_8 and ss5_1 independent
Pr > |t| = 0.1799

c3b: GPRD (15-84) vs. HSE (15-84) {Asthma Symptoms}
Number of obs = 14
Spearman's rho = -0.2220
Test of Ho: gsc5_8 and ss5_4 independent
Pr > |t| = 0.4456

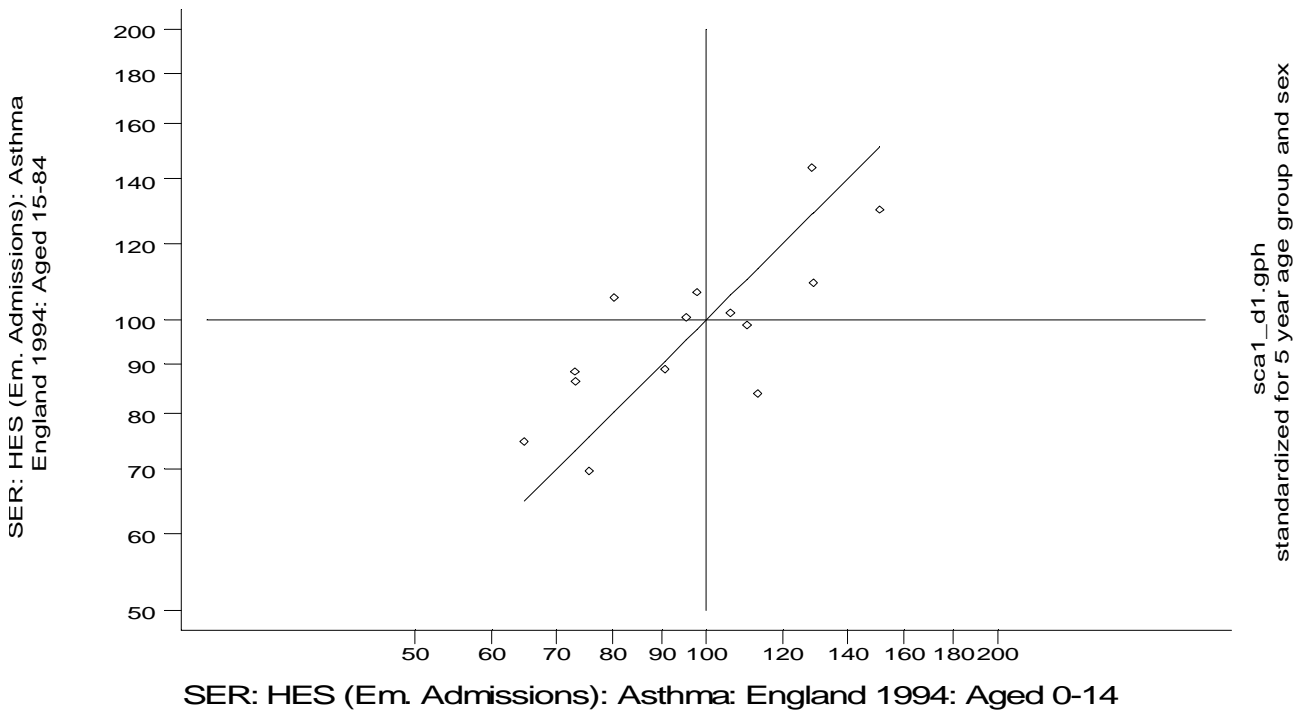
c3c: GPRD (15-84) vs. HSE (15-84) {Asthma Therapy}
Number of obs = 14
Spearman's rho = 0.2396
Test of Ho: gsc5_8 and ss5_7 independent
Pr > |t| = 0.4094

A6 Asthma standard output graphs

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

- regional comparisons between HSE95, GPRD, HS and mortality, England 1994, ages 0-84

“ADULTS vs. CHILDREN”



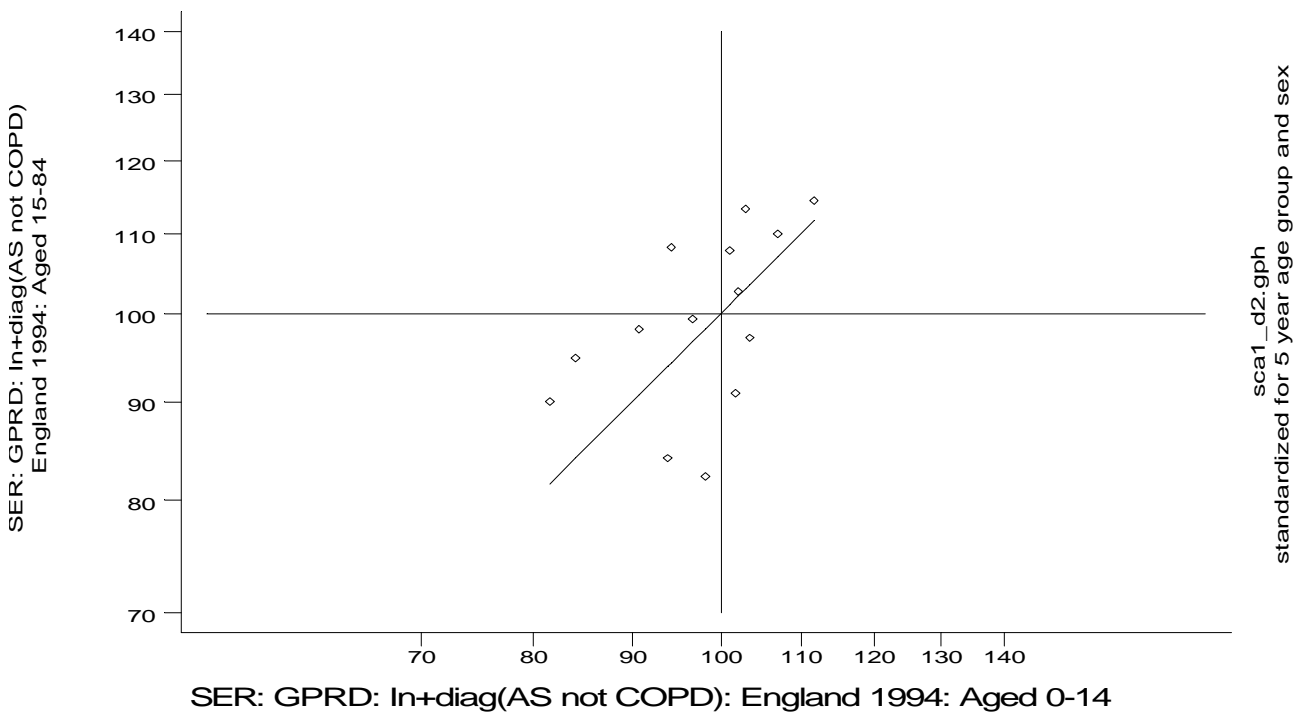
ADULTS vs. CHILDREN

```
d1: HES (15-84) vs. HES (0-14)
Number of obs =      14
Spearman's rho =      0.9824
Test of Ho: hs5_1 and hs3_1 independent
Pr > |t| =      0.0000
```

A6 Asthma standard output graphs

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

- regional comparisons between HSE95, GPRD, HS and mortality, England 1994, ages 0-84

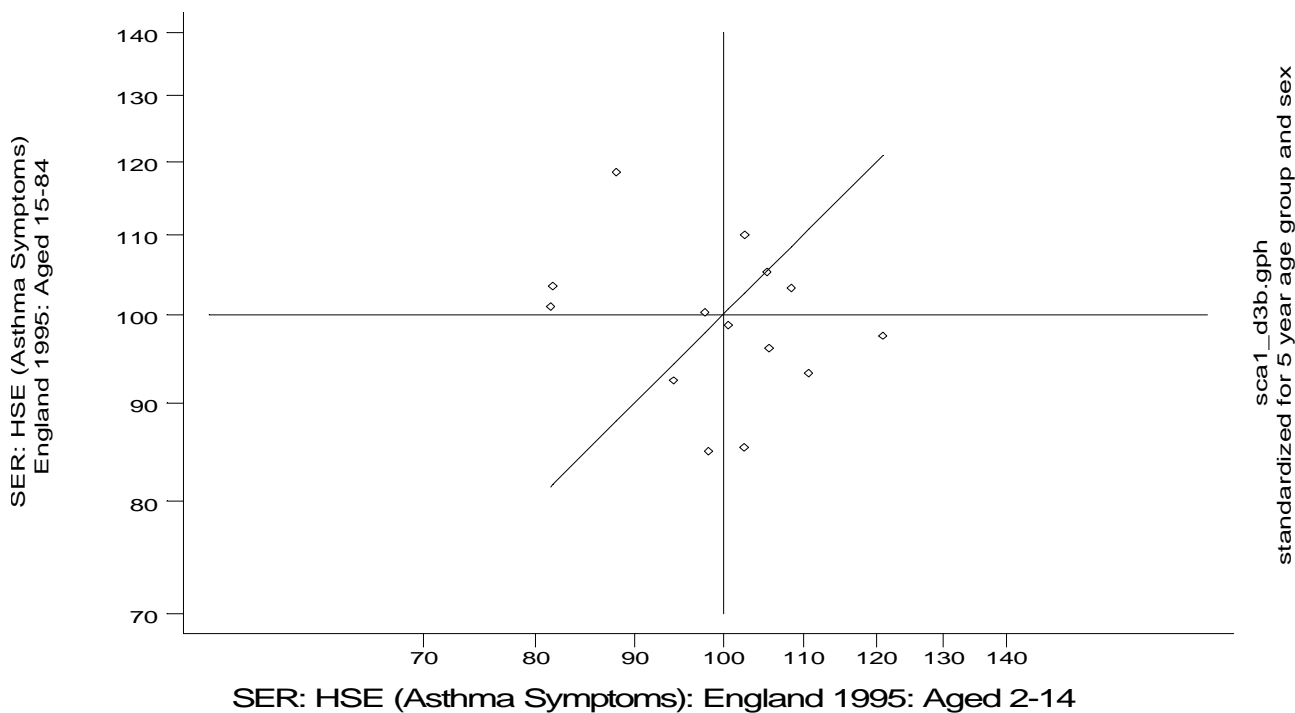
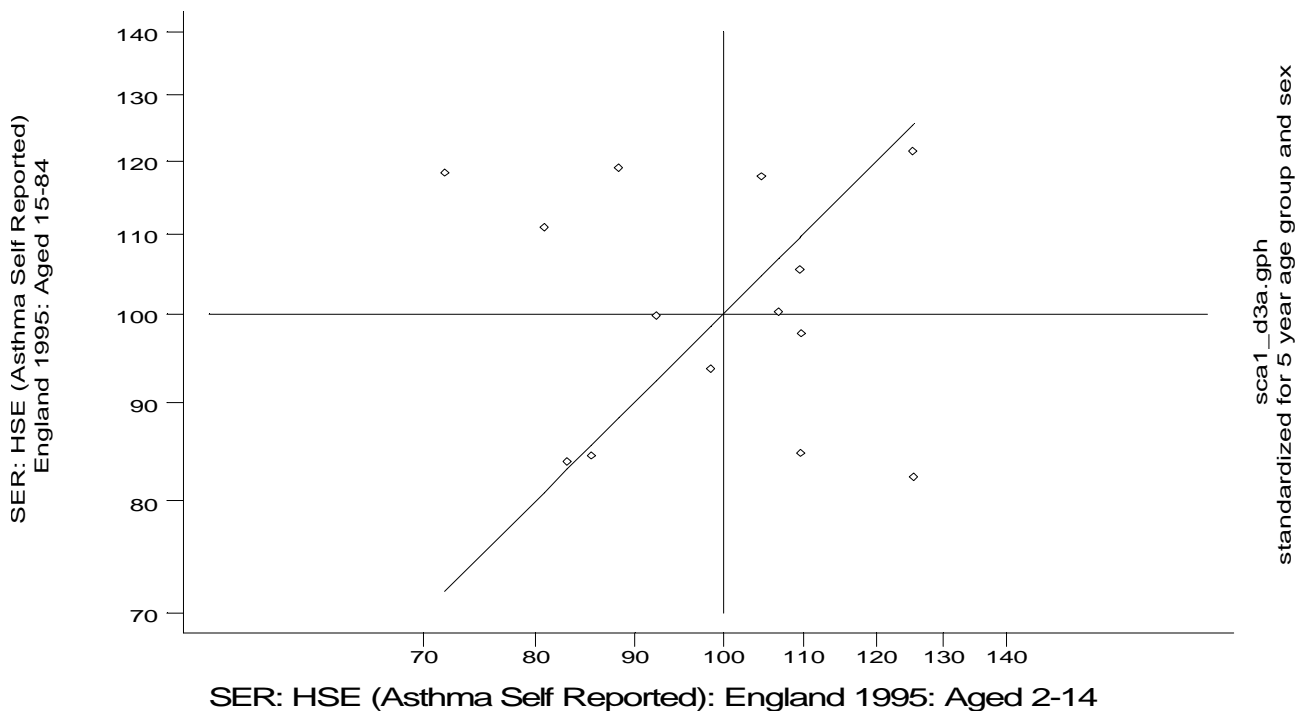


```
d2: GPRD (15-84) vs. GPRD (0-14)
Number of obs =      14
Spearman's rho =      0.9912
Test of Ho: gsc5_8 and gsc3_8 independent
Pr > |t| =      0.0000
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A6 Asthma standard output graphs

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

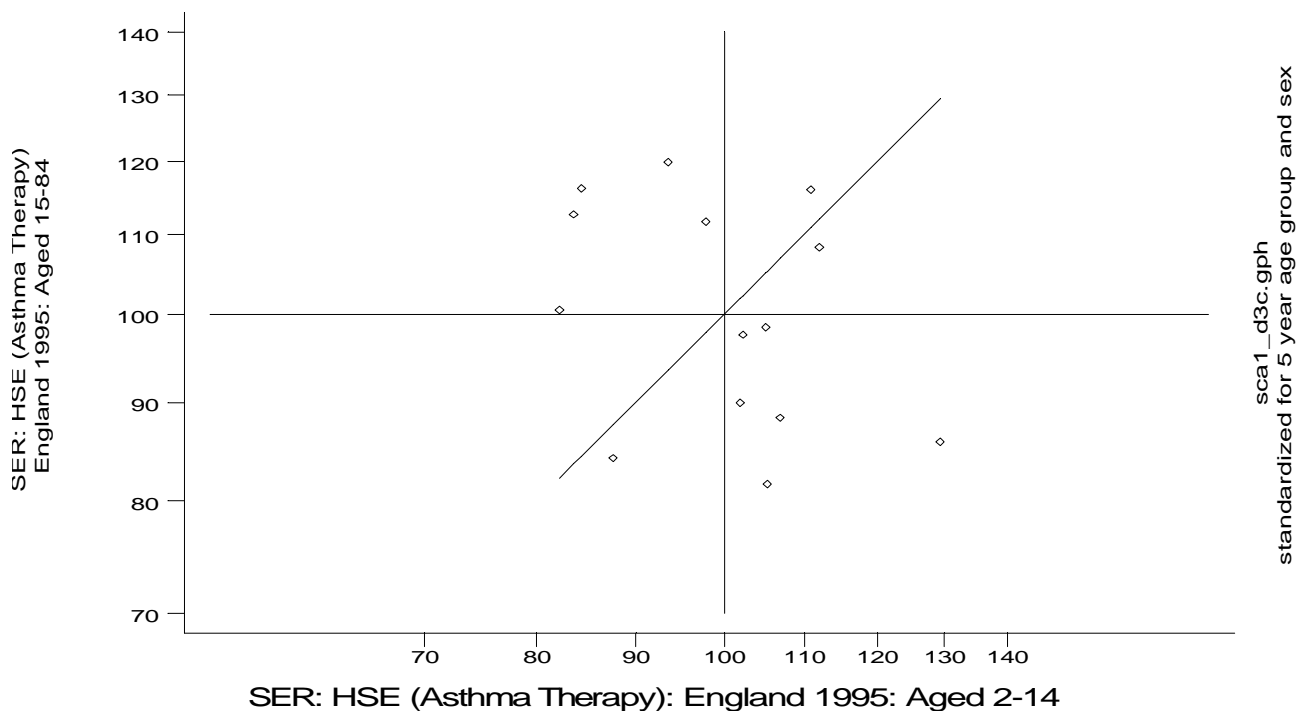
- regional comparisons between HSE95, GPRD, HS and mortality, England 1994, ages 0-84



A6 Asthma standard output graphs

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

- regional comparisons between HSE95, GPRD, HS and mortality, England 1994, ages 0-84



d3a: HSE (15-84) vs. HSE (2-14) {Asthma Self Reported}

Number of obs = 14
Spearman's rho = 0.9429
Test of Ho: ss5_1 and ss3_1 independent
Pr > |t| = 0.0000

d3b: HSE (15-84) vs. HSE (2-14) {Asthma Symptoms}

Number of obs = 14
Spearman's rho = 0.9692
Test of Ho: ss5_4 and ss3_4 independent
Pr > |t| = 0.0000

d3c: HSE (15-84) vs. HSE (2-14) {Asthma Therapy}

Number of obs = 14
Spearman's rho = 0.9780
Test of Ho: ss5_7 and ss3_7 independent
Pr > |t| = 0.0000

A6 Asthma standard output graphs

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

- regional comparisons between HSE95, GPRD, HS and mortality, England 1994, ages 0-84

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

	HSE95 Asthma (Self-Reported)	HSE95 Asthma Symptoms	HSE95 Asthma Therapy	MORTALITY	HES	GPRD
HSE95: Asthma (Self-Rep)				-0.38	0.21	0.45
Asthma Symptoms				0.05	0.27	-0.20
Asthma Therapy				-0.33	0.07	0.15
MORTALITY	-0.38	0.05	-0.33		0.48	-0.50
HES	0.21	0.27	0.07	0.48		-0.35
GPRD	0.45	-0.20	0.15	-0.50	-0.35	

Asthma: Spearman Rank Correlation Coefficients: “Children vs. Children”

	HSE95 Asthma (Self-Reported)	HSE95 Asthma Symptoms	HSE95 Asthma Therapy	MORTALITY	HES	GPRD
HSE95: Asthma (Self-Rep)						
Asthma Symptoms						
Asthma Therapy						
MORTALITY						
HES						-0.06
GPRD					-0.06	

Asthma: Spearman Rank Correlation Coefficients: “Pre-School Ages vs. Pre-School Ages”

	HSE95 Asthma (Self-Reported)	HSE95 Asthma Symptoms	HSE95 Asthma Therapy	MORTALITY	HES	GPRD
HSE95: Asthma (Self-Rep)					-0.03	0.13
Asthma Symptoms					0.38	-0.42
Asthma Therapy					-0.16	-0.24
MORTALITY						
HES	-0.03	0.38	-0.16			
GPRD	0.13	-0.42	-0.24			

Asthma: Spearman Rank Correlation Coefficients: “School Ages vs. School Ages”

	HSE95 Asthma (Self-Reported)	HSE95 Asthma Symptoms	HSE95 Asthma Therapy	MORTALITY	HES	GPRD
HSE95: Asthma (Self-Rep)					-0.61	0.33
Asthma Symptoms					-0.86	0.22
Asthma Therapy					-0.80	0.16
MORTALITY						
HES	-0.61	-0.86	-0.80			
GPRD	0.33	0.22	0.16			

A6 Asthma standard output graphs

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

- regional comparisons between HSE95, GPRD, HS and mortality, England 1994, ages 0-84

Asthma: Spearman Rank Correlation Coefficients: *“Adults vs. Adults”*

	HSE95 Asthma (Self-Reported)	HSE95 Asthma Symptoms	HSE95 Asthma Therapy	MORTALITY	HES	GPRD
HSE95: Asthma (Self-Rep)					0.32	0.38
Asthma Symptoms					0.67	-0.22
Asthma Therapy					0.44	0.24
MORTALITY						
HES	0.32	0.67	0.44			-0.29
GPRD	0.38	-0.22	0.24		-0.29	

Asthma: Spearman Rank Correlation Coefficients: *“Adults vs. Children”*

	HSE95 Asthma (Self-Reported)	HSE95 Asthma Symptoms	HSE95 Asthma Therapy	MORTALITY	HES	GPRD
HSE95: Asthma (Self-Rep)	0.94					
Asthma Symptoms		0.97				
Asthma Therapy			0.98			
MORTALITY						
HES					0.98	
GPRD						0.99

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

- regional comparisons between HSE95, GPRD, HS and mortality, England 1994, ages 0-84

ALL AGES

Observed Number of Asthma Events,

England 1994: Aged 0-84 (HSE: England 1995: Aged 2-84)

rha	gocl_8	hol_1	mol_1	sol_1	sol_4	sol_7
Northern	5667	4947	91	86	265	122
Yorkshir	2822	5931	106	92	285	136
Trent	7332	7140	120	133	448	238
E Anglia	8028	2971	61	79	204	108
NW Thame	7304	5791	68	74	216	125
NE Thame	1696	5703	103	79	281	146
SE Thame	1899	6177	80	88	304	148
SW Thame	6868	4688	54	90	220	137
Wessex	4995	4065	66	96	250	137
Oxford	2966	3125	53	61	222	112
S Wester	6219	4206	79	89	287	144
W Midlan	14205	9024	129	131	452	184
Mersey	5864	5349	65	66	185	100
N Wester	6040	9804	140	109	335	166

Denominator for Asthma Events,

England 1994: Aged 0-84 (HSE: England 1995: Aged 2-84)

rha	gdcl_8	hdl_1	mdl_1	sd1_1	sd1_4	sd1_7
Northern	104729.2	2881981	2881981	1258	1258	1258
Yorkshir	52152.7	3654624	3654624	1527	1527	1527
Trent	120996.0	4701828	4701828	2020	2020	2020
E Anglia	113740.5	2600991	2600991	1152	1152	1152
NW Thame	116975.6	2953265	2953265	1074	1074	1074
NE Thame	31761.7	3766006	3766006	1434	1434	1434
SE Thame	33977.9	3654042	3654042	1326	1326	1326
SW Thame	117694.8	2950819	2950819	1235	1235	1235
Wessex	73779.6	3110430	3110430	1232	1232	1232
Oxford	45680.5	2574069	2574069	1091	1091	1091
S Wester	96438.4	3277999	3277999	1466	1466	1466
W Midlan	229739.0	5213324	5213324	2112	2112	2112
Mersey	87252.9	2369834	2369834	929	929	929
N Wester	102013.9	4133922	4133922	1660	1660	1660

Crude Rate of Asthma Events,

England 1994: Aged 0-84 (HSE: England 1995: Aged 2-84)

rha	grcl_8	hrl_1	mrl_1	sr1_1	sr1_4	sr1_7
Northern	54.1	1716.5	31.6	6.8	21.1	9.7
Yorkshir	54.1	1622.9	29.0	6.0	18.7	8.9
Trent	60.6	1518.6	25.5	6.6	22.2	11.8
E Anglia	70.6	1142.3	23.5	6.9	17.7	9.4
NW Thame	62.4	1960.9	23.0	6.9	20.1	11.6
NE Thame	53.4	1514.3	27.3	5.5	19.6	10.2
SE Thame	55.9	1690.5	21.9	6.6	22.9	11.2
SW Thame	58.4	1588.7	18.3	7.3	17.8	11.1
Wessex	67.7	1306.9	21.2	7.8	20.3	11.1
Oxford	64.9	1214.0	20.6	5.6	20.3	10.3
S Wester	64.5	1283.1	24.1	6.1	19.6	9.8
W Midlan	61.8	1730.9	24.7	6.2	21.4	8.7
Mersey	67.2	2257.1	27.4	7.1	19.9	10.8
N Wester	59.2	2371.6	33.9	6.6	20.2	10.0

Expected Number of Asthma Events,

England 1994: Aged 0-84 (HSE: England 1995: Aged 2-84)

rha	gecl_8	hel_1	mel_1	sel_1	sel_4	sel_7
Northern	6488.3	4727.2	74.0	84.0	254.4	131.0
Yorkshir	3218.8	6060.0	92.7	99.8	307.3	155.6
Trent	7445.5	7707.7	120.8	131.1	411.8	207.4
E Anglia	7071.7	4264.4	67.2	74.1	234.4	116.7
NW Thame	7125.3	4850.8	68.6	70.2	218.0	109.6
NE Thame	1942.0	6351.7	89.9	94.5	287.5	147.8
SE Thame	2077.2	6046.0	95.1	86.7	268.0	136.8
SW Thame	7168.3	4766.3	76.6	78.9	249.9	126.3
Wessex	4547.3	5031.6	83.6	78.3	250.3	125.4
Oxford	2866.9	4291.7	58.4	71.9	218.3	111.7
S Wester	5883.4	5264.9	92.3	93.9	299.0	150.4
W Midlan	14310.7	8679.6	131.4	137.6	429.5	216.4
Mersey	5380.4	3933.8	60.3	60.1	189.2	94.6
N Wester	6379.2	6945.3	104.2	111.9	336.4	173.4

SER's for Asthma Events, standardized for age5 and sex

England 1994: Aged 0-84 (HSE: England 1995: Aged 2-84)

rha	gscl_8	hsl_1	msl_1	ssl_1	ssl_4	ssl_7
Northern	87.3	104.6	123.0	102.4	104.2	93.1
Yorkshir	87.7	97.9	114.4	92.2	92.7	87.4
Trent	98.5	92.6	99.3	101.4	108.8	114.8
E Anglia	113.5	69.7	90.8	106.6	87.0	92.5
NW Thame	102.5	119.4	99.1	105.5	99.1	114.0
NE Thame	87.3	89.8	114.6	83.6	97.7	98.8
SE Thame	91.4	102.2	84.1	101.5	113.4	108.2
SW Thame	95.8	98.4	70.5	114.0	88.0	108.5
Wessex	109.8	80.8	79.0	122.6	99.9	109.2
Oxford	103.5	72.8	90.8	84.8	101.7	100.3
S Wester	105.7	79.9	85.6	94.8	96.0	95.7
W Midlan	99.3	104.0	98.2	95.2	105.2	85.0
Mersey	109.0	136.0	107.8	109.8	97.8	105.7
N Wester	94.7	141.2	134.4	97.4	99.6	95.7

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

- regional comparisons between HSE95, GPRD, HS and mortality, England 1994, ages 0-84

PRE-SCHOOL AGES

Observed Number of Asthma Events,

England 1994: Aged 0-4 (HSE: England 1995: Aged 2-4)

rha	goc2_8	ho2_1	so2_1	so2_4	so2_7
Northern	422	1941	5	14	8
Yorkshir	271	1971	8	12	6
Trent	556	2080	9	14	8
E Anglia	668	988	7	9	8
NW Thame	605	2101	2	10	4
NE Thame	137	2078	7	19	9
SE Thame	117	1960	5	11	5
SW Thame	508	1868	10	18	9
Wessex	400	1262	5	7	4
Oxford	230	1189	5	15	7
S Wester	435	1256	9	14	14
W Midlan	1212	3192	11	26	12
Mersey	410	1656	6	10	6
N Wester	532	3654	10	19	11

Denominator for Asthma Events,

England 1994: Aged 0-4 (HSE: England 1995: Aged 2-4)

rha	gdc2_8	hd2_1	sd2_1	sd2_4	sd2_7
Northern	6022.7	188464	57	57	57
Yorkshir	3206.8	248657	68	68	68
Trent	7268.7	311740	90	90	90
E Anglia	6914.4	172980	58	58	58
NW Thame	6777.4	203113	43	43	43
NE Thame	1959.5	274703	59	59	59
SE Thame	1823.3	251306	57	57	57
SW Thame	6797.3	192355	64	64	64
Wessex	4668.4	198985	47	47	47
Oxford	3027.0	180398	52	52	52
S Wester	5474.2	203168	68	68	68
W Midlan	13676.9	358923	103	103	103
Mersey	5002.4	159610	46	46	46
N Wester	6336.8	290822	82	82	82

Crude Rate of Asthma Events,

England 1994: Aged 0-4 (HSE: England 1995: Aged 2-4)

rha	grc2_8	hr2_1	sr2_1	sr2_4	sr2_7
Northern	70.1	10299.0	8.8	24.6	14.0
Yorkshir	84.5	7926.6	11.8	17.6	8.8
Trent	76.5	6672.2	10.0	15.6	8.9
E Anglia	96.6	5711.6	12.1	15.5	13.8
NW Thame	89.3	10344.0	4.7	23.3	9.3
NE Thame	69.9	7564.5	11.9	32.2	15.3
SE Thame	64.2	7799.3	8.8	19.3	8.8
SW Thame	74.7	9711.2	15.6	28.1	14.1
Wessex	85.7	6342.2	10.6	14.9	8.5
Oxford	76.0	6591.0	9.6	28.8	13.5
S Wester	79.5	6182.1	13.2	20.6	20.6
W Midlan	88.6	8893.3	10.7	25.2	11.7
Mersey	82.0	10375.3	13.0	21.7	13.0
N Wester	84.0	12564.4	12.2	23.2	13.4

Expected Number of Asthma Events,

England 1994: Aged 0-4 (HSE: England 1995: Aged 2-4)

rha	gec2_8	he2_1	se2_1	se2_4	se2_7
Northern	496.5	1584.0	6.5	12.8	7.3
Yorkshir	264.9	2089.4	7.6	15.1	8.5
Trent	599.5	2624.9	9.8	19.8	10.9
E Anglia	566.7	1452.0	6.3	12.8	7.1
NW Thame	558.1	1707.2	4.8	9.5	5.4
NE Thame	161.7	2306.5	6.6	13.2	7.5
SE Thame	150.6	2111.7	6.2	12.5	6.9
SW Thame	558.8	1615.2	7.1	14.2	8.0
Wessex	384.9	1671.2	5.2	10.4	5.8
Oxford	248.9	1518.2	5.7	11.5	6.4
S Wester	450.6	1709.5	7.6	15.1	8.5
W Midlan	1128.9	3016.8	11.4	22.8	12.8
Mersey	412.5	1343.6	5.0	10.1	5.6
N Wester	520.5	2445.9	9.2	18.3	10.4

SER's for Asthma Events, standardized for age5 and sex

England 1994: Aged 0-4 (HSE: England 1995: Aged 2-4)

rha	gsc2_8	hs2_1	ss2_1	ss2_4	ss2_7
Northern	85.0	122.5	77.4	109.5	109.6
Yorkshir	102.3	94.3	105.9	79.5	70.8
Trent	92.7	79.2	91.9	70.9	73.3
E Anglia	117.9	68.0	110.5	70.6	113.1
NW Thame	108.4	123.1	41.9	104.9	74.7
NE Thame	84.7	90.1	105.6	144.3	120.6
SE Thame	77.7	92.8	80.5	87.9	72.2
SW Thame	90.9	115.7	140.1	126.5	112.2
Wessex	103.9	75.5	96.4	67.4	68.8
Oxford	92.4	78.3	87.3	130.6	109.2
S Wester	96.5	73.5	119.1	92.8	165.1
W Midlan	107.4	105.8	96.6	114.1	94.1
Mersey	99.4	123.3	119.2	98.8	106.7
N Wester	102.2	149.4	108.5	103.8	106.0

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

- regional comparisons between HSE95, GPRD, HS and mortality, England 1994, ages 0-84

CHILDREN

Observed Number of Asthma Events,
England 1994: Aged 0-14 (HSE: England 1995: Aged 2-14)

rha	goc3_8	ho3_1	so3_1	so3_4	so3_7
Northern	1992	2659	29	49	35
Yorkshir	1062	2994	33	48	40
Trent	2386	3157	44	69	56
E Anglia	2663	1413	23	35	28
NW Thame	2264	3203	14	33	23
NE Thame	504	3047	25	53	39
SE Thame	559	3042	22	40	29
SW Thame	2089	2687	24	40	28
Wessex	1573	1845	30	39	34
Oxford	930	1715	20	47	31
S Wester	1897	1904	34	51	44
W Midlan	4851	4799	42	76	47
Mersey	1891	2622	16	25	19
N Wester	2245	5536	33	49	37

Denominator for Asthma Events,
England 1994: Aged 0-14 (HSE: England 1995: Aged 2-14)

rha	gdc3_8	hd3_1	sd3_1	sd3_4	sd3_7
Northern	19829.7	570908	241	241	241
Yorkshir	10143.6	733525	273	273	273
Trent	23151.9	913684	361	361	361
E Anglia	22351.5	508943	188	188	188
NW Thame	20890.7	560528	176	176	176
NE Thame	5847.6	761450	271	271	271
SE Thame	6180.3	711325	244	244	244
SW Thame	21599.9	544194	206	206	206
Wessex	14383.1	591126	214	214	214
Oxford	9285.1	525797	206	206	206
S Wester	17609.1	612545	246	246	246
W Midlan	43876.9	1054987	385	385	385
Mersey	16517.7	480444	164	164	164
N Wester	20678.2	851296	321	321	321

Crude Rate of Asthma Events,
England 1994: Aged 0-14 (HSE: England 1995: Aged 2-14)

rha	grc3_8	hr3_1	sr3_1	sr3_4	sr3_7
Northern	100.5	4657.5	12.0	20.3	14.5
Yorkshir	104.7	4081.7	12.1	17.6	14.7
Trent	103.1	3455.2	12.2	19.1	15.5
E Anglia	119.1	2776.3	12.2	18.6	14.9
NW Thame	108.4	5714.3	8.0	18.8	13.1
NE Thame	86.2	4001.6	9.2	19.6	14.4
SE Thame	90.4	4276.5	9.0	16.4	11.9
SW Thame	96.7	4937.6	11.7	19.4	13.6
Wessex	109.4	3121.2	14.0	18.2	15.9
Oxford	100.2	3261.7	9.7	22.8	15.0
S Wester	107.7	3108.3	13.8	20.7	17.9
W Midlan	110.6	4548.9	10.9	19.7	12.2
Mersey	114.5	5457.5	9.8	15.2	11.6
N Wester	108.6	6503.0	10.3	15.3	11.5

Expected Number of Asthma Events,
England 1994: Aged 0-14 (HSE: England 1995: Aged 2-14)

rha	gec3_8	he3_1	se3_1	se3_4	se3_7
Northern	2121.5	2413.0	27.1	45.2	34.4
Yorkshir	1081.4	3141.9	30.1	50.9	38.0
Trent	2466.6	3931.1	40.1	67.2	50.5
E Anglia	2383.7	2180.4	21.0	35.6	26.2
NW Thame	2217.2	2482.8	19.5	32.8	24.6
NE Thame	617.8	3364.7	30.1	50.2	38.1
SE Thame	664.5	3111.3	27.2	45.4	34.4
SW Thame	2301.7	2379.4	22.9	39.0	28.6
Wessex	1527.1	2522.0	23.9	39.8	30.4
Oxford	986.3	2267.6	23.4	38.9	29.5
S Wester	1877.8	2597.8	27.1	46.1	34.0
W Midlan	4686.1	4527.4	42.6	72.1	53.6
Mersey	1768.2	2040.0	18.1	30.7	22.7
N Wester	2206.2	3663.7	35.7	60.0	45.0

SER's for Asthma Events, standardized for age5 and sex
England 1994: Aged 0-14 (HSE: England 1995: Aged 2-14)

rha	gsc3_8	hs3_1	ss3_1	ss3_4	ss3_7
Northern	93.9	110.2	106.8	108.4	101.9
Yorkshir	98.2	95.3	109.6	94.3	105.2
Trent	96.7	80.3	109.8	102.6	110.9
E Anglia	111.7	64.8	109.5	98.3	106.9
NW Thame	102.1	129.0	71.8	100.7	93.5
NE Thame	81.6	90.6	83.1	105.6	102.3
SE Thame	84.1	97.8	80.8	88.1	84.4
SW Thame	90.8	112.9	104.7	102.5	97.9
Wessex	103.0	73.2	125.3	97.9	112.0
Oxford	94.3	75.6	85.5	120.9	105.1
S Wester	101.0	73.3	125.4	110.7	129.3
W Midlan	103.5	106.0	98.5	105.3	87.6
Mersey	106.9	128.5	88.3	81.4	83.7
N Wester	101.8	151.1	92.3	81.6	82.2

A6 Asthma standard output graphs

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

- regional comparisons between HSE95, GPRD, HS and mortality, England 1994, ages 0-84

SCHOOL AGES

Observed Number of Asthma Events,

England 1994: Aged 5-14 (HSE: England 1995: Aged 5-14)					
rha	goc4_8	ho4_1	so4_1	so4_4	so4_7
Northern	1570	718	24	35	27
Yorkshir	791	1023	25	36	34
Trent	1830	1077	35	55	48
E Anglia	1995	425	16	26	20
NW Thame	1659	1102	12	23	19
NE Thame	367	969	18	34	30
SE Thame	442	1082	17	29	24
SW Thame	1581	819	14	22	19
Wessex	1173	583	25	32	30
Oxford	700	526	15	32	24
S Wester	1462	648	25	37	30
W Midlan	3639	1607	31	50	35
Mersey	1481	966	10	15	13
N Wester	1713	1882	23	30	26

Denominator for Asthma Events,

England 1994: Aged 5-14 (HSE: England 1995: Aged 5-14)					
rha	gdc4_8	hd4_1	sd4_1	sd4_4	sd4_7
Northern	13807.0	382444	184	184	184
Yorkshir	6936.8	484868	205	205	205
Trent	15883.2	601944	271	271	271
E Anglia	15437.1	335963	130	130	130
NW Thame	14113.4	357415	133	133	133
NE Thame	3888.1	486747	212	212	212
SE Thame	4357.0	460019	187	187	187
SW Thame	14802.6	351839	142	142	142
Wessex	9714.7	392141	167	167	167
Oxford	6258.2	345399	154	154	154
S Wester	12134.9	409377	178	178	178
W Midlan	30199.9	696064	282	282	282
Mersey	11515.2	320834	118	118	118
N Wester	14341.4	560474	239	239	239

Crude Rate of Asthma Events,

England 1994: Aged 5-14 (HSE: England 1995: Aged 5-14)					
rha	grc4_8	hr4_1	sr4_1	sr4_4	sr4_7
Northern	113.7	1877.4	13.0	19.0	14.7
Yorkshir	114.0	2109.9	12.2	17.6	16.6
Trent	115.2	1789.2	12.9	20.3	17.7
E Anglia	129.2	1265.0	12.3	20.0	15.4
NW Thame	117.5	3083.3	9.0	17.3	14.3
NE Thame	94.4	1990.8	8.5	16.0	14.2
SE Thame	101.4	2352.1	9.1	15.5	12.8
SW Thame	106.8	2327.8	9.9	15.5	13.4
Wessex	120.7	1486.7	15.0	19.2	18.0
Oxford	111.9	1522.9	9.7	20.8	15.6
S Wester	120.5	1582.9	14.0	20.8	16.9
W Midlan	120.5	2308.7	11.0	17.7	12.4
Mersey	128.6	3010.9	8.5	12.7	11.0
N Wester	119.4	3357.9	9.6	12.6	10.9

Expected Number of Asthma Events,

England 1994: Aged 5-14 (HSE: England 1995: Aged 5-14)					
rha	gec4_8	he4_1	se4_1	se4_4	se4_7
Northern	1624.9	829.0	20.7	32.4	27.1
Yorkshir	816.4	1052.5	22.5	35.8	29.5
Trent	1867.2	1306.2	30.3	47.5	39.6
E Anglia	1817.0	728.4	14.7	22.9	19.1
NW Thame	1659.1	775.7	14.7	23.2	19.2
NE Thame	456.1	1058.2	23.5	37.0	30.7
SE Thame	513.9	999.6	21.0	32.9	27.4
SW Thame	1742.8	764.2	15.8	24.8	20.6
Wessex	1142.3	850.8	18.8	29.5	24.5
Oxford	737.4	749.3	17.7	27.4	23.1
S Wester	1427.2	888.2	19.6	31.0	25.6
W Midlan	3557.2	1510.6	31.2	49.4	40.9
Mersey	1355.8	696.4	13.1	20.6	17.1
N Wester	1685.8	1217.8	26.5	41.7	34.6

SER's for Asthma Events, standardized for age5 and sex

England 1994: Aged 5-14 (HSE: England 1995: Aged 5-14)					
rha	gsc4_8	hs4_1	ss4_1	ss4_4	ss4_7
Northern	96.6	86.6	116.0	108.0	99.8
Yorkshir	96.9	97.2	110.9	100.5	115.1
Trent	98.0	82.5	115.5	115.8	121.2
E Anglia	109.8	58.3	109.1	113.7	104.6
NW Thame	100.0	142.1	81.5	98.9	98.8
NE Thame	80.5	91.6	76.7	91.9	97.8
SE Thame	86.0	108.2	80.9	88.1	87.5
SW Thame	90.7	107.2	88.7	88.8	92.3
Wessex	102.7	68.5	133.3	108.6	122.2
Oxford	94.9	70.2	84.9	116.8	104.0
S Wester	102.4	73.0	127.9	119.4	117.4
W Midlan	102.3	106.4	99.2	101.3	85.6
Mersey	109.2	138.7	76.4	72.9	76.1
N Wester	101.6	154.5	86.7	71.9	75.1

A6 Asthma standard output graphs

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

- regional comparisons between HSE95, GPRD, HS and mortality, England 1994, ages 0-84

ADULTS

Observed Number of Asthma Events,
England 1994: Aged 15-84 (HSE: England 1995: Aged 15-84)

rha	goc5_8	ho5_1	so5_1	so5_4	so5_7
Northern	3675	2288	57	216	87
Yorkshir	1760	2937	59	237	96
Trent	4946	3983	89	379	182
E Anglia	5365	1558	56	169	80
NW Thame	5040	2588	60	183	102
NE Thame	1192	2656	54	228	107
SE Thame	1340	3135	66	264	119
SW Thame	4779	2001	66	180	109
Wessex	3422	2220	66	211	103
Oxford	2036	1410	41	175	81
S Wester	4322	2302	55	236	100
W Midlan	9354	4225	89	376	137
Mersey	3973	2727	50	160	81
N Wester	3795	4268	76	286	129

Denominator for Asthma Events,
England 1994: Aged 15-84 (HSE: England 1995: Aged 15-84)

rha	gdc5_8	hd5_1	sd5_1	sd5_4	sd5_7
Northern	84899.5	2311073	1017	1017	1017
Yorkshir	42009.1	2921099	1254	1254	1254
Trent	97844.1	3788144	1659	1659	1659
E Anglia	91388.9	2092048	964	964	964
NW Thame	96084.8	2392737	898	898	898
NE Thame	25914.1	3004556	1163	1163	1163
SE Thame	27797.6	2942717	1082	1082	1082
SW Thame	96094.8	2406625	1029	1029	1029
Wessex	59396.5	2519304	1018	1018	1018
Oxford	36395.4	2048272	885	885	885
S Wester	78829.3	2665454	1220	1220	1220
W Midlan	185862.1	4158337	1727	1727	1727
Mersey	70735.2	1889390	765	765	765
N Wester	81335.8	3282626	1339	1339	1339

Crude Rate of Asthma Events,
England 1994: Aged 15-84 (HSE: England 1995: Aged 15-84)

rha	grc5_8	hr5_1	sr5_1	sr5_4	sr5_7
Northern	43.3	990.0	5.6	21.2	8.6
Yorkshir	41.9	1005.4	4.7	18.9	7.7
Trent	50.5	1051.4	5.4	22.8	11.0
E Anglia	58.7	744.7	5.8	17.5	8.3
NW Thame	52.5	1081.6	6.7	20.4	11.4
NE Thame	46.0	884.0	4.6	19.6	9.2
SE Thame	48.2	1065.3	6.1	24.4	11.0
SW Thame	49.7	831.5	6.4	17.5	10.6
Wessex	57.6	881.2	6.5	20.7	10.1
Oxford	55.9	688.4	4.6	19.8	9.2
S Wester	54.8	863.6	4.5	19.3	8.2
W Midlan	50.3	1016.0	5.2	21.8	7.9
Mersey	56.2	1443.3	6.5	20.9	10.6
N Wester	46.7	1300.2	5.7	21.4	9.6

Expected Number of Asthma Events,
England 1994: Aged 15-84 (HSE: England 1995: Aged 15-84)

rha	gec5_8	he5_1	se5_1	se5_4	se5_7
Northern	4366.8	2314.2	56.9	209.2	96.7
Yorkshir	2137.5	2918.2	69.7	256.4	117.6
Trent	4978.9	3776.6	91.1	344.6	156.9
E Anglia	4688.0	2084.0	53.1	198.8	90.5
NW Thame	4908.1	2368.0	50.7	185.3	85.0
NE Thame	1324.2	2986.9	64.4	237.4	109.6
SE Thame	1412.7	2934.7	59.5	222.6	102.4
SW Thame	4866.6	2386.8	56.0	210.8	97.6
Wessex	3020.2	2509.6	54.3	210.4	95.0
Oxford	1880.6	2024.1	48.5	179.4	82.2
S Wester	4005.6	2667.1	66.8	252.9	116.4
W Midlan	9624.7	4152.3	95.0	357.4	162.7
Mersey	3612.2	1893.8	42.0	158.5	71.9
N Wester	4172.9	3281.6	76.1	276.4	128.4

SER's for Asthma Events, standardized for age5 and sex
England 1994: Aged 15-84 (HSE: England 1995: Aged 15-84)

rha	gsc5_8	hs5_1	ss5_1	ss5_4	ss5_7
Northern	84.2	98.9	100.2	103.3	90.0
Yorkshir	82.3	100.6	84.7	92.4	81.7
Trent	99.3	105.5	97.7	110.0	116.0
E Anglia	114.4	74.8	105.5	85.0	88.4
NW Thame	102.7	109.3	118.4	98.8	120.0
NE Thame	90.0	88.9	83.8	96.1	97.6
SE Thame	94.9	106.8	110.9	118.6	116.2
SW Thame	98.2	83.8	117.8	85.4	111.6
Wessex	113.3	88.5	121.4	100.3	108.4
Oxford	108.3	69.7	84.5	97.6	98.5
S Wester	107.9	86.3	82.3	93.3	85.9
W Midlan	97.2	101.8	93.7	105.2	84.2
Mersey	110.0	144.0	119.1	101.0	112.7
N Wester	90.9	130.1	99.8	103.5	100.5