

Table 7.3. 1 : Summary of excess mortality associated with Bristol
derived from HES data : 1991 - Mar95: under 90 days

Group	Mortality in 11 other centres	Mortality in Bristol	Expected deaths if 'typical'	Excess (95% int.) deaths	Prob excess > 0	RR	Rank (95% int.) out of all centres	Prob. Bristol highest
1: Fallot type	6 / 39 15 %	0 / 0 0 %						
2: Interatrial TGA	9 / 65 14 %	1 / 1 100 %	0.1	0.9 (0 - 1)	0.86	7.14	9 / 9 (4 - 9)	0.70
3: Other TGA	54 / 531 10 %	9 / 10 90 %	1.2	7.8 (5 - 9)	1.00	7.83	12 / 12 (11 - 12)	0.90
4: TAPVD	22 / 131 17 %	5 / 10 50 %	1.7	3.3 (0 - 5)	0.97	2.99	11 / 11 (7 - 11)	0.58
5: AVSD	22 / 125 18 %	2 / 2 100 %	0.4	1.6 (0 - 2)	0.94	4.88	12 / 12 (7 - 12)	0.53
6: Closure of ASD	8 / 64 12 %	0 / 2 0 %	0.2	-0.2 (-1 - 0)	0.00	0.00	4 / 10 (1 - 10)	0.17
7: Closure of VSD	31 / 267 12 %	0 / 1 0 %	0.1	-0.1 (-1 - 0)	0.00	0.00	1 / 12 (1 - 12)	0.35
8: Truncus	26 / 75 35 %	2 / 2 100 %	0.7	1.3 (0 - 2)	0.86	2.78	12 / 12 (4 - 12)	0.40
9: Fontan type	10 / 38 26 %	0 / 0 0 %						
10: Aortic/pulm valv	22 / 149 15 %	1 / 1 100 %	0.2	0.8 (0 - 1)	0.84	6.25	12 / 12 (5 - 12)	0.75
11: Mitral valves	6 / 11 55 %	0 / 0 0 %						
12: Closed shunts	45 / 430 10 %	2 / 25 8 %	2.6	-0.6 (-5 - 2)	0.33	0.77	6 / 12 (2 - 11)	0.02
13: Simple coarct	15 / 372 4 %	2 / 52 4 %	2.2	-0.2 (-4 - 2)	0.42	0.93	6 / 12 (1 - 11)	0.01
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Groups 1-13: Total	276 / 2297 12 %	24 / 106 23 %	9.4	14.6 (8 - 21)	1.00	2.56		
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Open	254 / 1615 16 %	19 / 30 63 %	5.1	13.9 (8 - 18)	1.00	3.73	12 / 12 (12 - 12)	1.00
Closed	61 / 1323 5 %	5 / 96 5 %	4.6	0.4 (-7 - 5)	0.55	1.08	8 / 12 (2 - 12)	0.04
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Open/closed: Total	315 / 2938 11 %	24 / 126 19 %	9.7	14.3 (7 - 22)	1.00	2.47		
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Table 7.3. 2 : Summary of excess mortality associated with Bristol derived from HES data : 1991 - Mar95: 90 days to 1 yr

Group	Mortality in 11 other centres	Mortality in Bristol	Expected deaths if 'typical'	Excess (95% int.) deaths	Prob excess > 0	RR	Rank (95% int.) out of all centres	Prob. Bristol highest
1: Fallot type	12 / 242 5 %	0 / 3 0 %	0.2	-0.2 (-1 - 0)	0.00	0.00	2 / 12 (1 - 12)	0.25
2: Interatrial TGA	2 / 33 6 %	1 / 14 7 %	0.9	0.1 (-3 - 1)	0.50	1.16	9 / 11 (1 - 9)	0.00
3: Other TGA	6 / 42 14 %	1 / 3 33 %	0.4	0.6 (-1 - 1)	0.64	2.33	10 / 10 (2 - 10)	0.21
4: TAPVD	1 / 35 3 %	0 / 4 0 %	0.1	-0.1 (-1 - 0)	0.00	0.00	5 / 10 (1 - 10)	0.05
5: AVSD	26 / 277 9 %	9 / 21 43 %	2.0	7.0 (3 - 9)	1.00	4.55	12 / 12 (10 - 12)	0.80
6: Closure of ASD	3 / 85 4 %	5 / 8 62 %	0.3	4.7 (3 - 5)	1.00	18.52	11 / 11 (9 - 11)	0.70
7: Closure of VSD	14 / 544 3 %	0 / 46 0 %	1.3	-1.3 (-5 - 0)	0.00	0.00	2 / 12 (1 - 10)	0.00
8: Truncus	5 / 22 23 %	1 / 2 50 %	0.5	0.5 (-1 - 1)	0.61	2.13	9 / 12 (2 - 12)	0.06
9: Fontan type	10 / 80 12 %	2 / 4 50 %	0.5	1.5 (0 - 2)	0.90	3.77	10 / 10 (4 - 10)	0.38
10: Aortic/pulm valv	3 / 101 3 %	1 / 3 33 %	0.1	0.9 (0 - 1)	0.91	11.11	12 / 12 (5 - 12)	0.53
11: Mitral valves	6 / 40 15 %	2 / 3 67 %	0.5	1.5 (0 - 2)	0.92	4.26	11 / 11 (5 - 11)	0.39
12: Closed shunts	13 / 168 8 %	1 / 13 8 %	1.1	-0.1 (-3 - 1)	0.38	0.93	8 / 12 (1 - 11)	0.01
13: Simple coarct	2 / 54 4 %	0 / 12 0 %	0.4	-0.4 (-2 - 0)	0.00	0.00	5 / 11 (1 - 9)	0.00
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Groups 1-13: Total	103 / 1723 6 %	23 / 136 17 %	8.2	14.8 (9 - 21)	1.00	2.82		
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Open	102 / 1561 7 %	22 / 113 19 %	7.6	14.4 (7 - 20)	1.00	2.89	12 / 12 (11 - 12)	0.92
Closed	17 / 461 4 %	2 / 57 4 %	2.1	-0.1 (-4 - 2)	0.42	0.94	5 / 12 (1 - 11)	0.02
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Open/closed: Total	119 / 2022 6 %	24 / 170 14 %	9.7	14.3 (7 - 22)	1.00	2.47		
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Table 7.3. 3 : Summary of excess mortality associated with Bristol
derived from HES data : 1991 - Mar95: 1 to 15 years

Group	Mortality in 11 other centres	Mortality in Bristol	Expected deaths if 'typical'	Excess (95% int.) deaths	Prob excess > 0	RR	Rank (95% int.) out of all centres	Prob. Bristol highest
1: Fallot type	27 / 557 5 %	5 / 44 11 %	2.2	2.8 (-2 - 5)	0.89	2.29	11 / 12 (6 - 12)	0.13
2: Interatrial TGA	3 / 43 7 %	1 / 3 33 %	0.2	0.8 (0 - 1)	0.81	4.55	10 / 10 (3 - 10)	0.37
3: Other TGA	3 / 47 6 %	1 / 6 17 %	0.4	0.6 (-1 - 1)	0.68	2.50	6 / 8 (2 - 8)	0.09
4: TAPVD	1 / 32 3 %	0 / 0 0 %						
5: AVSD	14 / 367 4 %	1 / 11 9 %	0.5	0.5 (-1 - 1)	0.64	2.13	9 / 12 (3 - 12)	0.13
6: Closure of ASD	3 / 1015 0 %	0 / 80 0 %	0.2	-0.2 (-2 - 0)	0.00	0.00	5 / 12 (1 - 11)	0.01
7: Closure of VSD	20 / 465 4 %	1 / 46 2 %	2.0	-1.0 (-5 - 1)	0.17	0.49	3 / 12 (1 - 11)	0.01
8: Truncus	1 / 6 17 %	0 / 1 0 %	0.2	-0.2 (-1 - 0)	0.00	0.00	3 / 6 (1 - 6)	0.13
9: Fontan type	51 / 525 10 %	3 / 34 9 %	3.5	-0.5 (-7 - 3)	0.41	0.86	7 / 12 (2 - 11)	0.00
10: Aortic/pulm valv	18 / 645 3 %	3 / 46 7 %	1.4	1.6 (-2 - 3)	0.83	2.22	11 / 12 (4 - 12)	0.18
11: Mitral valves	13 / 180 7 %	1 / 20 5 %	1.4	-0.4 (-4 - 1)	0.31	0.69	8 / 12 (1 - 11)	0.01
12: Closed shunts	18 / 292 6 %	4 / 27 15 %	1.8	2.2 (-2 - 4)	0.86	2.23	11 / 12 (4 - 12)	0.11
13: Simple coarct	0 / 159 0 %	0 / 28 0 %	0.0	0.0 (0 - 0)	0.00	NA	6 / 12 (1 - 10)	0.00
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Groups 1-13: Total	172 / 4333 4 %	20 / 346 6 %	13.8	6.2 (-3 - 15)	0.90	1.45		
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Open	194 / 4211 5 %	21 / 314 7 %	15.0	6.0 (-14 - 17)	0.80	1.40	11 / 12 (6 - 11)	0.01
Closed	15 / 893 2 %	0 / 89 0 %	1.7	-1.7 (-7 - 0)	0.00	0.00	4 / 12 (1 - 9)	0.00
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Open/closed: Total	209 / 5104 4 %	21 / 403 5 %	16.7	4.3 (-12 - 21)	0.69	1.25		
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Table 7.3. 4 : Summary of excess mortality associated with Bristol
derived from HES data : 1991 - Mar95: All ages

Group	Mortality in 11 other centres	Mortality in Bristol	Expected deaths if 'typical'	Excess (95% int.) deaths	Prob excess > 0	RR	Rank (95% int.) out of all centres	Prob. Bristol highest
1: Fallot type	45 / 838 5 %	5 / 47 11 %	2.3	2.7 (-2 - 5)	0.88	2.15		
2: Interatrial TGA	14 / 141 10 %	3 / 18 17 %	1.2	1.8 (-1 - 3)	0.86	2.48		
3: Other TGA	63 / 620 10 %	11 / 19 58 %	2.0	9.0 (6 - 11)	1.00	5.56		
4: TAPVD	24 / 198 12 %	5 / 14 36 %	1.8	3.2 (0 - 5)	0.97	2.79		
5: AVSD	62 / 769 8 %	12 / 34 35 %	2.9	9.1 (5 - 12)	1.00	4.20		
6: Closure of ASD	14 / 1164 1 %	5 / 90 6 %	0.8	4.2 (2 - 5)	1.00	6.58		
7: Closure of VSD	65 / 1276 5 %	1 / 93 1 %	3.4	-2.4 (-7 - 1)	0.05	0.29		
8: Truncus	32 / 103 31 %	3 / 5 60 %	1.4	1.6 (-1 - 3)	0.86	2.16		
9: Fontan type	71 / 643 11 %	5 / 38 13 %	4.0	1.0 (-5 - 5)	0.64	1.24		
10: Aortic/pulm valv	43 / 895 5 %	5 / 50 10 %	1.6	3.4 (0 - 5)	0.96	3.12		
11: Mitral valves	25 / 231 11 %	3 / 23 13 %	1.9	1.1 (-3 - 3)	0.71	1.57		
12: Closed shunts	76 / 890 9 %	7 / 65 11 %	5.5	1.5 (-5 - 6)	0.68	1.28		
13: Simple coarct	17 / 585 3 %	2 / 92 2 %	2.6	-0.6 (-5 - 2)	0.32	0.77		
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Groups 1-13: Total	551 / 8353 7 %	67 / 588 11 %	31.4	35.6 (23 - 49)	1.00	2.14		
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Open	550 / 7387 7 %	62 / 457 14 %	27.7	34.3 (13 - 49)	0.99	2.24		
Closed	93 / 2677 3 %	7 / 242 3 %	8.5	-1.5 (-11 - 5)	0.35	0.83		
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Open/closed: Total	643 / 10064 6 %	69 / 699 10 %	36.2	32.8 (13 - 53)	1.00	1.91		
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Table 7.4. 1 : Summary of excess mortality associated with Bristol
derived from CSR data : 1984 - 1987: under 1 yr

Group	Mortality in 11 other centres	Mortality in Bristol	Expected deaths if 'typical'	Excess (95% int.) deaths	Prob excess > 0	RR	Rank (95% int.) out of all centres	Prob. Bristol highest
1: Fallot type	9 / 60 15 %	0 / 0 0 %						
2: Interatrial TGA	7 / 75 9 %	0 / 5 0 %	0.5	-0.5 (-2 - 0)	0.00	0.00	4 / 11 (1 - 11)	0.03
3: Other TGA	56 / 295 19 %	1 / 12 8 %	2.4	-1.4 (-5 - 1)	0.10	0.41	2 / 11 (1 - 9)	0.00
4: TAPVD	22 / 114 19 %	6 / 16 37 %	3.0	3.0 (-3 - 6)	0.86	2.00	10 / 11 (5 - 11)	0.06
5: AVSD	16 / 61 26 %	3 / 4 75 %	1.1	1.9 (0 - 3)	0.90	2.66	7 / 10 (4 - 10)	0.18
6: Closure of ASD	6 / 59 10 %	1 / 1 100 %	0.1	0.9 (0 - 1)	0.90	10.33	11 / 11 (5 - 11)	0.69
7: Closure of VSD	34 / 338 10 %	0 / 12 0 %	1.5	-1.5 (-5 - 0)	0.00	0.00	2 / 11 (1 - 9)	0.00
8: Truncus	31 / 60 52 %	3 / 3 100 %	1.6	1.4 (0 - 3)	0.82	1.91	11 / 11 (4 - 11)	0.32
9: Fontan type	1 / 1 100 %	0 / 0 0 %						
10: Aortic/pulm valv	38 / 158 24 %	2 / 11 18 %	2.8	-0.8 (-5 - 2)	0.25	0.71	4 / 11 (1 - 10)	0.02
11: Mitral valves	1 / 4 25 %	0 / 0 0 %						
12: Closed shunts	0 / 0 0 %	0 / 0 0 %						
13: Simple coarct	7 / 302 2 %	1 / 23 4 %	0.5	0.5 (-2 - 1)	0.62	1.89	11 / 12 (2 - 12)	0.07
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Groups 1-13: Total	228 / 1527 15 %	17 / 87 20 %	13.5	3.5 (-5 - 12)	0.79	1.26		
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Open	267 / 1290 21 %	16 / 63 25 %	14.0	2.0 (-12 - 12)	0.65	1.14	7 / 11 (3 - 11)	0.03
Closed	110 / 1814 6 %	18 / 154 12 %	9.4	8.6 (-5 - 16)	0.92	1.92	11 / 12 (8 - 12)	0.21
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Open/closed: Total	377 / 3104 12 %	34 / 217 16 %	23.4	10.6 (-6 - 27)	0.89	1.45		
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Table 7.4. 2 : Summary of excess mortality associated with Bristol
derived from CSR data : 1984 - 1987: 1 to 15 years

Group	Mortality in 11 other centres	Mortality in Bristol	Expected deaths if 'typical'	Excess (95% int.) deaths	Prob excess > 0	RR	Rank (95% int.) out of all centres	Prob. Bristol highest
1: Fallot type	24 / 404 6 %	7 / 49 14 %	3.4	3.6 (-4 - 7)	0.88	2.08	10 / 11 (5 - 11)	0.10
2: Interatrial TGA	1 / 26 4 %	0 / 0 0 %						
3: Other TGA	10 / 128 8 %	2 / 23 9 %	1.9	0.1 (-4 - 2)	0.49	1.06	8 / 11 (2 - 10)	0.00
4: TAPVD	2 / 24 8 %	0 / 1 0 %	0.1	-0.1 (-1 - 0)	0.00	0.00	4 / 9 (1 - 9)	0.09
5: AVSD	22 / 118 19 %	3 / 12 25 %	2.3	0.7 (-4 - 3)	0.60	1.29	9 / 11 (2 - 11)	0.04
6: Closure of ASD	6 / 857 1 %	1 / 88 1 %	0.6	0.4 (-2 - 1)	0.57	1.57	9 / 12 (2 - 12)	0.04
7: Closure of VSD	12 / 331 4 %	0 / 27 0 %	1.0	-1.0 (-4 - 0)	0.00	0.00	3 / 11 (1 - 10)	0.01
8: Truncus	2 / 9 22 %	0 / 1 0 %	0.2	-0.2 (-1 - 0)	0.00	0.00	2 / 4 (1 - 4)	0.26
9: Fontan type	24 / 64 37 %	2 / 4 50 %	1.5	0.5 (-2 - 2)	0.52	1.32	9 / 10 (1 - 10)	0.16
10: Aortic/pulm valv	20 / 341 6 %	0 / 27 0 %	1.6	-1.6 (-7 - 0)	0.00	0.00	3 / 12 (1 - 9)	0.00
11: Mitral valves	11 / 51 22 %	1 / 5 20 %	1.1	-0.1 (-2 - 1)	0.34	0.92	4 / 10 (1 - 9)	0.02
12: Closed shunts	0 / 0 0 %	0 / 0 0 %						
13: Simple coarct	0 / 223 0 %	0 / 35 0 %	0.0	0.0 (-1 - 0)	0.00	0.00	6 / 12 (1 - 11)	0.00
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Groups 1-13: Total	134 / 2576 5 %	16 / 272 6 %	13.7	2.3 (-7 - 12)	0.68	1.17		
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Open	237 / 2904 8 %	24 / 284 8 %	23.3	0.7 (-30 - 18)	0.59	1.03	7 / 12 (4 - 11)	0.00
Closed	21 / 1226 2 %	3 / 120 2 %	2.0	1.0 (-4 - 3)	0.69	1.48	10 / 12 (3 - 12)	0.06
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Open/closed: Total	258 / 4130 6 %	27 / 404 7 %	25.3	1.7 (-24 - 28)	0.55	1.07		
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Table 7.4. 3 : Summary of excess mortality associated with Bristol
derived from CSR data : 1988 - 1990: under 1 yr

Group	Mortality in 11 other centres	Mortality in Bristol	Expected deaths if 'typical'	Excess (95% int.) deaths	Prob excess > 0	RR	Rank (95% int.) out of all centres	Prob. Bristol highest
1: Fallot type	12 / 121 10 %	2 / 2 100 %	0.2	1.8 (1 - 2)	0.99	10.20	12 / 12 (10 - 12)	0.85
2: Interatrial TGA	13 / 63 21 %	0 / 3 0 %	0.6	-0.6 (-2 - 0)	0.00	0.00	2 / 9 (1 - 9)	0.05
3: Other TGA	60 / 353 17 %	4 / 34 12 %	6.2	-2.2 (-11 - 3)	0.26	0.64	4 / 12 (1 - 9)	0.00
4: TAPVD	18 / 140 13 %	5 / 11 45 %	1.5	3.5 (0 - 5)	0.97	3.31	11 / 12 (8 - 12)	0.24
5: AVSD	28 / 146 19 %	4 / 13 31 %	2.8	1.2 (-4 - 4)	0.68	1.40	9 / 12 (3 - 12)	0.02
6: Closure of ASD	8 / 67 12 %	2 / 4 50 %	0.6	1.4 (-1 - 2)	0.87	3.31	9 / 11 (4 - 11)	0.09
7: Closure of VSD	24 / 434 6 %	4 / 28 14 %	1.9	2.1 (-3 - 4)	0.85	2.16	9 / 11 (6 - 11)	0.05
8: Truncus	35 / 61 57 %	4 / 6 67 %	3.5	0.5 (-2 - 3)	0.48	1.14	8 / 11 (1 - 11)	0.06
9: Fontan type	2 / 8 25 %	0 / 0 0 %						
10: Aortic/pulm valv	39 / 183 21 %	1 / 6 17 %	1.3	-0.3 (-3 - 1)	0.28	0.76	6 / 12 (1 - 12)	0.04
11: Mitral valves	6 / 25 24 %	0 / 1 0 %	0.2	-0.2 (-1 - 0)	0.00	0.00	2 / 9 (1 - 9)	0.13
12: Closed shunts	0 / 0 0 %	0 / 0 0 %						
13: Simple coarct	13 / 339 4 %	0 / 19 0 %	0.7	-0.7 (-3 - 0)	0.00	0.00	4 / 12 (1 - 11)	0.02

Groups 1-13: Total	258 / 1940 13 %	26 / 127 20 %	19.7	6.3 (-5 - 18)	0.87	1.32		

Open	336 / 1863 18 %	31 / 108 29 %	22.3	8.7 (-12 - 23)	0.83	1.39	10 / 12 (7 - 12)	0.05
Closed	95 / 1740 5 %	12 / 152 8 %	7.9	4.1 (-21 - 12)	0.79	1.51	11 / 12 (6 - 11)	0.00

Open/closed: Total	431 / 3603 12 %	43 / 260 17 %	30.3	12.7 (-14 - 40)	0.82	1.42		

Table 7.4. 4 : Summary of excess mortality associated with Bristol
derived from CSR data : 1988 - 1990: 1 to 15 years

Group	Mortality in 11 other centres	Mortality in Bristol	Expected deaths if 'typical'	Excess (95% int.) deaths	Prob excess > 0	RR	Rank (95% int.) out of all centres	Prob. Bristol highest
1: Fallot type	37 / 575 6 %	7 / 52 13 %	4.0	3.0 (-4 - 7)	0.84	1.77	11 / 12 (4 - 12)	0.07
2: Interatrial TGA	2 / 30 7 %	0 / 0 0 %						
3: Other TGA	9 / 117 8 %	3 / 11 27 %	0.9	2.1 (0 - 3)	0.92	3.41	11 / 11 (4 - 11)	0.18
4: TAPVD	1 / 26 4 %	1 / 2 50 %	0.1	0.9 (0 - 1)	0.92	11.71	9 / 9 (2 - 9)	0.33
5: AVSD	14 / 99 14 %	4 / 8 50 %	1.3	2.7 (0 - 4)	0.95	3.19	12 / 12 (6 - 12)	0.19
6: Closure of ASD	5 / 857 1 %	0 / 83 0 %	0.5	-0.5 (-3 - 0)	0.00	0.00	4 / 12 (1 - 11)	0.02
7: Closure of VSD	12 / 375 3 %	2 / 42 5 %	1.4	0.6 (-3 - 2)	0.61	1.38	8 / 11 (2 - 11)	0.04
8: Truncus	3 / 7 43 %	0 / 1 0 %	0.4	-0.4 (-1 - 0)	0.00	0.00	2 / 6 (1 - 6)	0.04
9: Fontan type	14 / 120 12 %	6 / 11 55 %	1.6	4.4 (1 - 6)	0.98	3.75	12 / 12 (7 - 12)	0.22
10: Aortic/pulm valv	23 / 331 7 %	0 / 29 0 %	2.1	-2.1 (-6 - 0)	0.00	0.00	3 / 12 (1 - 9)	0.00
11: Mitral valves	10 / 69 14 %	1 / 3 33 %	0.5	0.5 (-1 - 1)	0.63	2.21	12 / 12 (2 - 12)	0.20
12: Closed shunts	0 / 0 0 %	0 / 0 0 %						
13: Simple coarct	0 / 235 0 %	0 / 43 0 %	0.1	-0.1 (-1 - 0)	0.00	0.00	6 / 12 (1 - 10)	0.00
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Groups 1-13: Total	130 / 2841 5 %	24 / 285 8 %	12.8	11.2 (2 - 20)	0.99	1.88		
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Open	224 / 3319 7 %	37 / 304 12 %	22.4	14.6 (-19 - 32)	0.88	1.65	11 / 12 (8 - 12)	0.06
Closed	21 / 980 2 %	4 / 127 3 %	2.6	1.4 (-5 - 4)	0.73	1.52	9 / 12 (4 - 12)	0.09
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Open/closed: Total	245 / 4299 6 %	41 / 431 10 %	25.1	15.9 (-12 - 44)	0.87	1.64		
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Table 7.4. 5 : Summary of excess mortality associated with Bristol
derived from CSR data : 1991 - Mar95: under 1 yr

Group	Mortality in 11 other centres	Mortality in Bristol	Expected deaths if 'typical'	Excess (95% int.) deaths	Prob excess > 0	RR	Rank (95% int.) out of all centres	Prob. Bristol highest
1: Fallot type	22 / 270 8 %	0 / 2 0 %	0.2	-0.2 (-1 - 0)	0.00	0.00	2 / 12 (1 - 12)	0.31
2: Interatrial TGA	14 / 50 28 %	0 / 3 0 %	0.8	-0.8 (-3 - 0)	0.00	0.00	3 / 11 (1 - 10)	0.02
3: Other TGA	72 / 573 13 %	10 / 36 28 %	5.0	5.0 (-2 - 10)	0.92	2.01	12 / 12 (7 - 12)	0.47
4: TAPVD	21 / 153 14 %	6 / 18 33 %	2.6	3.4 (-1 - 6)	0.93	2.31	11 / 12 (5 - 12)	0.16
5: AVSD	44 / 331 13 %	8 / 32 25 %	4.5	3.5 (-3 - 8)	0.86	1.77	11 / 12 (5 - 12)	0.17
6: Closure of ASD	2 / 129 2 %	2 / 5 40 %	0.1	1.9 (1 - 2)	0.99	25.97	11 / 11 (7 - 11)	0.63
7: Closure of VSD	18 / 689 3 %	0 / 51 0 %	1.4	-1.4 (-5 - 0)	0.00	0.00	2 / 12 (1 - 10)	0.01
8: Truncus	26 / 102 25 %	2 / 7 29 %	1.9	0.1 (-3 - 2)	0.44	1.08	8 / 12 (1 - 12)	0.05
9: Fontan type	7 / 21 33 %	1 / 1 100 %	0.4	0.6 (0 - 1)	0.64	2.75	7 / 8 (2 - 8)	0.26
10: Aortic/pulm valv	24 / 179 13 %	1 / 1 100 %	0.2	0.8 (0 - 1)	0.84	6.08	12 / 12 (5 - 12)	0.55
11: Mitral valves	5 / 36 14 %	0 / 1 0 %	0.2	-0.2 (-1 - 0)	0.00	0.00	4 / 10 (1 - 10)	0.07
12: Closed shunts	0 / 0 0 %	0 / 0 0 %						
13: Simple coarct	9 / 464 2 %	0 / 30 0 %	0.6	-0.6 (-3 - 0)	0.00	0.00	4 / 12 (1 - 12)	0.03

Groups 1-13: Total	264 / 2997 9 %	30 / 187 16 %	17.7	12.3 (2 - 22)	0.99	1.69		

Open	395 / 3161 12 %	43 / 181 24 %	24.0	19.0 (2 - 32)	0.98	1.79	12 / 12 (10 - 12)	0.88
Closed	57 / 1839 3 %	5 / 179 3 %	6.2	-1.2 (-11 - 4)	0.38	0.81	5 / 12 (2 - 11)	0.00

Open/closed: Total	452 / 5000 9 %	48 / 360 13 %	30.2	17.8 (0 - 35)	0.98	1.59		

Table 7.4. 6 : Summary of excess mortality associated with Bristol
derived from CSR data : 1991 - Mar95: 1 to 15 years

Group	Mortality in 11 other centres	Mortality in Bristol	Expected deaths if 'typical'	Excess (95% int.) deaths	Prob excess > 0	RR	Rank (95% int.) out of all centres	Prob. Bristol highest
1: Fallot type	29 / 593 5 %	6 / 56 11 %	2.9	3.1 (-2 - 6)	0.89	2.09	10 / 12 (5 - 12)	0.10
2: Interatrial TGA	1 / 22 5 %	0 / 1 0 %	0.1	-0.1 (-1 - 0)	0.00	0.00	5 / 10 (1 - 10)	0.08
3: Other TGA	7 / 67 10 %	0 / 9 0 %	1.0	-1.0 (-4 - 0)	0.00	0.00	4 / 12 (1 - 9)	0.00
4: TAPVD	1 / 31 3 %	0 / 1 0 %	0.0	0.0 (-1 - 0)	0.00	0.00	6 / 11 (1 - 11)	0.20
5: AVSD	10 / 181 6 %	3 / 9 33 %	0.5	2.5 (0 - 3)	0.97	5.52	12 / 12 (7 - 12)	0.30
6: Closure of ASD	7 / 1270 1 %	0 / 121 0 %	0.7	-0.7 (-3 - 0)	0.00	0.00	4 / 12 (1 - 11)	0.01
7: Closure of VSD	8 / 362 2 %	0 / 39 0 %	1.0	-1.0 (-4 - 0)	0.00	0.00	4 / 12 (1 - 10)	0.00
8: Truncus	2 / 13 15 %	0 / 1 0 %	0.2	-0.2 (-1 - 0)	0.00	0.00	4 / 8 (1 - 8)	0.08
9: Fontan type	28 / 280 10 %	6 / 38 16 %	4.0	2.0 (-8 - 6)	0.75	1.49	9 / 12 (4 - 11)	0.00
10: Aortic/pulm valv	17 / 614 3 %	0 / 33 0 %	1.1	-1.1 (-4 - 0)	0.00	0.00	2 / 12 (1 - 10)	0.00
11: Mitral valves	10 / 115 9 %	0 / 8 0 %	0.7	-0.7 (-3 - 0)	0.00	0.00	2 / 11 (1 - 10)	0.01
12: Closed shunts	0 / 0 0 %	0 / 0 0 %						
13: Simple coarct	3 / 247 1 %	0 / 31 0 %	0.4	-0.4 (-2 - 0)	0.00	0.00	5 / 12 (1 - 11)	0.02
<hr/>								
Groups 1-13: Total	123 / 3795 3 %	15 / 347 4 %	12.6	2.4 (-8 - 13)	0.68	1.19		
<hr/>								
Open	232 / 4503 5 %	28 / 382 7 %	22.8	5.2 (-35 - 24)	0.72	1.23	9 / 12 (6 - 10)	0.00
Closed	21 / 792 3 %	3 / 88 3 %	2.5	0.5 (-6 - 3)	0.61	1.18	8 / 12 (3 - 11)	0.02
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Open/closed: Total	253 / 5295 5 %	31 / 470 7 %	25.4	5.6 (-27 - 38)	0.63	1.22		
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Table 7.4. 7 : Summary of excess mortality associated with Bristol derived from CSR data : 1984 - 1987: All ages

Group	Mortality in 11 other centres	Mortality in Bristol	Expected deaths if 'typical'	Excess (95% int.) deaths	Prob excess > 0	RR	Rank (95% int.) out of all centres	Prob. Bristol highest
1: Fallot type	33 / 464 7 %	7 / 49 14 %	3.4	3.6 (-4 - 7)	0.88	2.08		
2: Interatrial TGA	8 / 101 8 %	0 / 5 0 %	0.5	-0.5 (-2 - 0)	0.00	0.00		
3: Other TGA	66 / 423 16 %	3 / 35 9 %	4.3	-1.3 (-7 - 2)	0.23	0.69		
4: TAPVD	24 / 138 17 %	6 / 17 35 %	3.1	2.9 (-3 - 6)	0.85	1.94		
5: AVSD	38 / 179 21 %	6 / 16 37 %	3.4	2.6 (-2 - 6)	0.85	1.74		
6: Closure of ASD	12 / 916 1 %	2 / 89 2 %	0.7	1.3 (-1 - 2)	0.83	2.73		
7: Closure of VSD	46 / 669 7 %	0 / 39 0 %	2.5	-2.5 (-7 - 0)	0.00	0.00		
8: Truncus	33 / 69 48 %	3 / 4 75 %	1.8	1.2 (-1 - 3)	0.75	1.68		
9: Fontan type	25 / 65 38 %	2 / 4 50 %	1.5	0.5 (-2 - 2)	0.52	1.32		
10: Aortic/pulm valv	58 / 499 12 %	2 / 38 5 %	4.4	-2.4 (-9 - 2)	0.11	0.46		
11: Mitral valves	12 / 55 22 %	1 / 5 20 %	1.1	-0.1 (-2 - 1)	0.34	0.92		
12: Closed shunts	0 / 0 0 %	0 / 0 0 %						
13: Simple coarct	7 / 525 1 %	1 / 58 2 %	0.6	0.4 (-2 - 1)	0.59	1.74		
<hr/>								
Groups 1-13: Total	362 / 4103 9 %	33 / 359 9 %	27.3	5.7 (-7 - 18)	0.82	1.21		
<hr/>								
Open	504 / 4194 12 %	40 / 347 12 %	37.3	2.7 (-30 - 24)	0.63	1.07		
Closed	131 / 3040 4 %	21 / 274 8 %	11.4	9.6 (-5 - 18)	0.93	1.84		
<hr/>								
Open/closed: Total	635 / 7234 9 %	61 / 621 10 %	48.8	12.2 (-19 - 43)	0.78	1.25		
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Table 7.4. 8 : Summary of excess mortality associated with Bristol derived from CSR data : 1988 - 1990: All ages

Group	Mortality in 11 other centres	Mortality in Bristol	Expected deaths if 'typical'	Excess (95% int.) deaths	Prob excess > 0	RR	Rank (95% int.) out of all centres	Prob. Bristol highest
1: Fallot type	49 / 696 7 %	9 / 54 17 %	4.2	4.8 (-3 - 9)	0.92	2.16		
2: Interatrial TGA	15 / 93 16 %	0 / 3 0 %	0.6	-0.6 (-2 - 0)	0.00	0.00		
3: Other TGA	69 / 470 15 %	7 / 45 16 %	7.1	-0.1 (-10 - 6)	0.50	0.98		
4: TAPVD	19 / 166 11 %	6 / 13 46 %	1.6	4.4 (1 - 6)	0.98	3.76		
5: AVSD	42 / 245 17 %	8 / 21 38 %	4.1	3.9 (-1 - 8)	0.92	1.95		
6: Closure of ASD	13 / 924 1 %	2 / 87 2 %	1.1	0.9 (-2 - 2)	0.70	1.75		
7: Closure of VSD	36 / 809 4 %	6 / 70 9 %	3.3	2.7 (-4 - 6)	0.84	1.82		
8: Truncus	38 / 68 56 %	4 / 7 57 %	3.9	0.1 (-3 - 3)	0.38	1.02		
9: Fontan type	16 / 128 12 %	6 / 11 55 %	1.6	4.4 (1 - 6)	0.98	3.75		
10: Aortic/pulm valv	62 / 514 12 %	1 / 35 3 %	3.4	-2.4 (-7 - 1)	0.05	0.30		
11: Mitral valves	16 / 94 17 %	1 / 4 25 %	0.7	0.3 (-1 - 1)	0.47	1.44		
12: Closed shunts	0 / 0 0 %	0 / 0 0 %						
13: Simple coarct	13 / 574 2 %	0 / 62 0 %	0.8	-0.8 (-3 - 0)	0.00	0.00		
<hr/>								
Groups 1-13: Total	388 / 4781 8 %	50 / 412 12 %	32.4	17.6 (3 - 32)	0.99	1.54		
<hr/>								
Open	560 / 5182 11 %	68 / 412 17 %	44.8	23.2 (-16 - 48)	0.91	1.52		
Closed	116 / 2720 4 %	16 / 279 6 %	10.6	5.4 (-20 - 15)	0.81	1.51		
<hr/>								
Open/closed: Total	676 / 7902 9 %	84 / 691 12 %	55.3	28.7 (-10 - 67)	0.93	1.52		
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Table 7.4. 9 : Summary of excess mortality associated with Bristol
derived from CSR data : 1991 - Mar95: All ages

Group	Mortality in 11 other centres	Mortality in Bristol	Expected deaths if 'typical'	Excess (95% int.) deaths	Prob excess > 0	RR	Rank (95% int.) out of all centres	Prob. Bristol highest
1: Fallot type	51 / 863 6 %	6 / 58 10 %	3.0	3.0 (-2 - 6)	0.88	1.97		
2: Interatrial TGA	15 / 72 21 %	0 / 4 0 %	0.9	-0.9 (-3 - 0)	0.00	0.00		
3: Other TGA	79 / 640 12 %	10 / 45 22 %	5.9	4.1 (-4 - 9)	0.87	1.68		
4: TAPVD	22 / 184 12 %	6 / 19 32 %	2.6	3.4 (-1 - 6)	0.92	2.27		
5: AVSD	54 / 512 11 %	11 / 41 27 %	5.1	5.9 (-1 - 10)	0.95	2.17		
6: Closure of ASD	9 / 1399 1 %	2 / 126 2 %	0.8	1.2 (-2 - 2)	0.82	2.53		
7: Closure of VSD	26 / 1051 2 %	0 / 90 0 %	2.4	-2.4 (-7 - 0)	0.00	0.00		
8: Truncus	28 / 115 24 %	2 / 8 25 %	2.0	0.0 (-3 - 2)	0.39	0.99		
9: Fontan type	35 / 301 12 %	7 / 39 18 %	4.4	2.6 (-7 - 7)	0.79	1.59		
10: Aortic/pulm valv	41 / 793 5 %	1 / 34 3 %	1.3	-0.3 (-4 - 1)	0.34	0.78		
11: Mitral valves	15 / 151 10 %	0 / 9 0 %	0.9	-0.9 (-3 - 0)	0.00	0.00		
12: Closed shunts	0 / 0 0 %	0 / 0 0 %						
13: Simple coarct	12 / 711 2 %	0 / 61 0 %	1.0	-1.0 (-4 - 0)	0.00	0.00		
<hr/>								
Groups 1-13: Total	387 / 6792 6 %	45 / 534 8 %	30.3	14.7 (0 - 29)	0.98	1.48		
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Open	627 / 7664 8 %	71 / 563 13 %	46.9	24.1 (-18 - 49)	0.92	1.51		
Closed	78 / 2631 3 %	8 / 267 3 %	8.7	-0.7 (-12 - 6)	0.46	0.91		
<hr/>								
Open/closed: Total	705 / 10295 7 %	79 / 830 10 %	55.6	23.4 (-14 - 60)	0.89	1.42		
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Table 7.4. 10 : Summary of excess mortality associated with Bristol derived from CSR data : 1984 - Mar95: under 1 yr

Group	Mortality in 11 other centres	Mortality in Bristol	Expected deaths if 'typical'	Excess (95% int.) deaths	Prob excess > 0	RR	Rank (95% int.) out of all centres	Prob. Bristol highest
1: Fallot type	43 / 451 10 %	2 / 4 50 %	0.4	1.6 (0 - 2)	0.95	5.45		
2: Interatrial TGA	34 / 188 18 %	0 / 11 0 %	1.9	-1.9 (-5 - 0)	0.00	0.00		
3: Other TGA	188 / 1221 15 %	15 / 82 18 %	13.6	1.4 (-10 - 10)	0.60	1.10		
4: TAPVD	61 / 407 15 %	17 / 45 38 %	7.1	9.9 (2 - 15)	0.99	2.39		
5: AVSD	88 / 538 16 %	15 / 49 31 %	8.5	6.5 (-1 - 12)	0.94	1.76		
6: Closure of ASD	16 / 255 6 %	5 / 10 50 %	0.8	4.2 (2 - 5)	1.00	6.43		
7: Closure of VSD	76 / 1461 5 %	4 / 91 4 %	4.7	-0.7 (-8 - 3)	0.38	0.85		
8: Truncus	92 / 223 41 %	9 / 16 56 %	6.9	2.1 (-2 - 6)	0.77	1.30		
9: Fontan type	10 / 30 33 %	1 / 1 100 %	0.4	0.6 (0 - 1)	0.64	2.75		
10: Aortic/pulm valv	101 / 520 19 %	4 / 18 22 %	4.3	-0.3 (-5 - 3)	0.39	0.93		
11: Mitral valves	12 / 65 18 %	0 / 2 0 %	0.4	-0.4 (-2 - 0)	0.00	0.00		
12: Closed shunts	0 / 0 0 %	0 / 0 0 %						
13: Simple coarct	29 / 1105 3 %	1 / 72 1 %	1.9	-0.9 (-5 - 1)	0.19	0.53		
<hr/>								
Groups 1-13: Total	750 / 6464 12 %	73 / 401 18 %	50.9	22.1 (5 - 39)	0.99	1.43		
<hr/>								
Open	998 / 6314 16 %	90 / 352 26 %	60.4	29.6 (0 - 53)	0.97	1.49		
Closed	262 / 5393 5 %	35 / 485 7 %	23.5	11.5 (-17 - 27)	0.87	1.49		
<hr/>								
Open/closed: Total	1260 / 11707 11 %	125 / 837 15 %	83.9	41.1 (5 - 77)	0.99	1.49		
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Table 7.4. 11 : Summary of excess mortality associated with Bristol
derived from CSR data : 1984 - Mar95: 1 to 15 years

Group	Mortality in 11 other centres	Mortality in Bristol	Expected deaths if 'typical'	Excess (95% int.) deaths	Prob excess > 0	RR	Rank (95% int.) out of all centres	Prob. Bristol highest
1: Fallot type	90 / 1572 6 %	20 / 157 13 %	10.2	9.8 (-1 - 17)	0.96	1.96		
2: Interatrial TGA	4 / 78 5 %	0 / 1 0 %	0.1	-0.1 (-1 - 0)	0.00	0.00		
3: Other TGA	26 / 312 8 %	5 / 43 12 %	3.7	1.3 (-4 - 5)	0.68	1.34		
4: TAPVD	4 / 81 5 %	1 / 4 25 %	0.2	0.8 (0 - 1)	0.81	4.74		
5: AVSD	46 / 398 12 %	10 / 29 34 %	4.1	5.9 (1 - 10)	0.98	2.43		
6: Closure of ASD	18 / 2984 1 %	1 / 292 0 %	1.9	-0.9 (-5 - 1)	0.20	0.53		
7: Closure of VSD	32 / 1068 3 %	2 / 108 2 %	3.4	-1.4 (-7 - 2)	0.20	0.59		
8: Truncus	7 / 29 24 %	0 / 3 0 %	0.8	-0.8 (-2 - 0)	0.00	0.00		
9: Fontan type	66 / 464 14 %	14 / 53 26 %	7.2	6.8 (-3 - 13)	0.93	1.96		
10: Aortic/pulm valv	60 / 1286 5 %	0 / 89 0 %	4.8	-4.8 (-12 - -1)	0.00	0.00		
11: Mitral valves	31 / 235 13 %	2 / 16 12 %	2.3	-0.3 (-4 - 2)	0.34	0.88		
12: Closed shunts	0 / 0 0 %	0 / 0 0 %						
13: Simple coarct	3 / 705 0 %	0 / 109 0 %	0.5	-0.5 (-3 - 0)	0.00	0.00		
<hr/>								
Groups 1-13: Total	387 / 9212 4 %	55 / 904 6 %	39.1	15.9 (-1 - 32)	0.97	1.41		
<hr/>								
Open	693 / 10726 6 %	89 / 970 9 %	68.6	20.4 (-38 - 56)	0.83	1.30		
Closed	63 / 2998 2 %	10 / 335 3 %	7.2	2.8 (-7 - 9)	0.77	1.39		
<hr/>								
Open/closed: Total	756 / 13724 6 %	99 / 1305 8 %	75.8	23.2 (-27 - 74)	0.82	1.31		
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Table 7.4. 12 : Summary of excess mortality associated with Bristol derived from CSR data : 1984 - Mar95: All ages

Group	Mortality in 11 other centres	Mortality in Bristol	Expected deaths if 'typical'	Excess (95% int.) deaths	Prob excess > 0	RR	Rank (95% int.) out of all centres	Prob. Bristol highest
1: Fallot type	133 / 2023 7 %	22 / 161 14 %	10.6	11.4 (0 - 19)	0.97	2.08		
2: Interatrial TGA	38 / 266 14 %	0 / 12 0 %	2.0	-2.0 (-5 - 0)	0.00	0.00		
3: Other TGA	214 / 1533 14 %	20 / 125 16 %	17.4	2.6 (-10 - 12)	0.68	1.15		
4: TAPVD	65 / 488 13 %	18 / 49 37 %	7.3	10.7 (3 - 16)	0.99	2.46		
5: AVSD	134 / 936 14 %	25 / 78 32 %	12.6	12.4 (3 - 20)	0.99	1.98		
6: Closure of ASD	34 / 3239 1 %	6 / 302 2 %	2.7	3.3 (-1 - 6)	0.92	2.25		
7: Closure of VSD	108 / 2529 4 %	6 / 199 3 %	8.1	-2.1 (-10 - 4)	0.25	0.74		
8: Truncus	99 / 252 39 %	9 / 19 47 %	7.7	1.3 (-3 - 6)	0.64	1.17		
9: Fontan type	76 / 494 15 %	15 / 54 28 %	7.5	7.5 (-3 - 13)	0.94	1.99		
10: Aortic/pulm valv	161 / 1806 9 %	4 / 107 4 %	9.1	-5.1 (-13 - 1)	0.04	0.44		
11: Mitral valves	43 / 300 14 %	2 / 18 11 %	2.7	-0.7 (-4 - 2)	0.25	0.75		
12: Closed shunts	0 / 0 0 %	0 / 0 0 %						
13: Simple coarct	32 / 1810 2 %	1 / 181 1 %	2.4	-1.4 (-5 - 1)	0.12	0.42		
<hr/>								
Groups 1-13: Total	1137 / 15676 7 %	128 / 1305 10 %	90.0	38.0 (14 - 62)	1.00	1.42		
<hr/>								
Open	1691 / 17040 10 %	179 / 1322 14 %	129.0	50.0 (-14 - 94)	0.95	1.39		
Closed	325 / 8391 4 %	45 / 820 5 %	30.7	14.3 (-16 - 32)	0.89	1.46		
<hr/>								
Open/closed: Total	2016 / 25431 8 %	224 / 2142 10 %	159.7	64.3 (2 - 126)	0.98	1.40		
<hr/>								

Table 7.5. 1 : Summary of CSR and HES data for 1: Fallot type

	Epoch - Age	Mortality in 11 other centres	Mortality in Bristol	Estimated true mortality rates	— Bristol - - - Elsewhere	Excess (95% int.) deaths	Prob excess > 0	Rank (95% int.)
CSR	1984 - 1987: under 1 yr	9 / 60 15 %	0 / 0 0 %					
	1984 - 1987: 1 to 15 years	24 / 404 6 %	7 / 49 14 %			3.6 (-4 - 7)	0.88	10 / 11 (5 - 11)
	1988 - 1990: under 1 yr	12 / 121 10 %	2 / 2 100 %			1.8 (1 - 2)	0.99	12 / 12 (10 - 12)
	1988 - 1990: 1 to 15 years	37 / 575 6 %	7 / 52 13 %			3.0 (-4 - 7)	0.84	11 / 12 (4 - 12)
	1991 - Mar95: under 1 yr	22 / 270 8 %	0 / 2 0 %			-0.2 (-1 - 0)	0.00	2 / 12 (1 - 12)
	1991 - Mar95: 1 to 15 years	29 / 593 5 %	6 / 56 11 %			3.1 (-2 - 6)	0.89	10 / 12 (5 - 12)
	1984 - 1987: All ages	33 / 464 7 %	7 / 49 14 %			3.6 (-4 - 7)	0.88	
	1988 - 1990: All ages	49 / 696 7 %	9 / 54 17 %			4.8 (-3 - 9)	0.92	
	1991 - Mar95: All ages	51 / 863 6 %	6 / 58 10 %			3.0 (-2 - 6)	0.88	
	1984 - Mar95: under 1 yr	43 / 451 10 %	2 / 4 50 %			1.6 (0 - 2)	0.95	
	1984 - Mar95: 1 to 15 years	90 / 1572 6 %	20 / 157 13 %			9.8 (-1 - 17)	0.96	
	1984 - Mar95: All ages	133 / 2023 7 %	22 / 161 14 %			11.4 (0 - 19)	0.97	
	HES	1991 - Mar95: under 90 days	6 / 39 15 %	0 / 0 0 %			-0.2 (-1 - 0)	0.00
1991 - Mar95: 90 days to 1 yr		12 / 242 5 %	0 / 3 0 %			2.8 (-2 - 5)	0.89	11 / 12 (6 - 12)
1991 - Mar95: 1 to 15 years		27 / 557 5 %	5 / 44 11 %			2.7 (-2 - 5)	0.88	
1991 - Mar95: All ages		45 / 838 5 %	5 / 47 11 %			2.7 (-2 - 5)	0.88	

0 20 40 60 80 100

% Mortality Rate

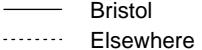
Table 7.5. 2 : Summary of CSR and HES data for 2: Interatrial TGA

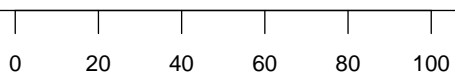
	Epoch - Age	Mortality in 11 other centres	Mortality in Bristol	Estimated true mortality rates	— Bristol - - - Elsewhere	Excess (95% int.) deaths	Prob excess > 0	Rank (95% int.)	
CSR	1984 - 1987: under 1 yr	7 / 75 9 %	0 / 5 0 %			-0.5 (-2 - 0)	0.00	4 / 11 (1 - 11)	
	1984 - 1987: 1 to 15 years	1 / 26 4 %	0 / 0 0 %						
	1988 - 1990: under 1 yr	13 / 63 21 %	0 / 3 0 %			-0.6 (-2 - 0)	0.00	2 / 9 (1 - 9)	
	1988 - 1990: 1 to 15 years	2 / 30 7 %	0 / 0 0 %						
	1991 - Mar95: under 1 yr	14 / 50 28 %	0 / 3 0 %			-0.8 (-3 - 0)	0.00	3 / 11 (1 - 10)	
	1991 - Mar95: 1 to 15 years	1 / 22 5 %	0 / 1 0 %			-0.1 (-1 - 0)	0.00	5 / 10 (1 - 10)	
	1984 - 1987: All ages	8 / 101 8 %	0 / 5 0 %			-0.5 (-2 - 0)	0.00		
	1988 - 1990: All ages	15 / 93 16 %	0 / 3 0 %			-0.6 (-2 - 0)	0.00		
	1991 - Mar95: All ages	15 / 72 21 %	0 / 4 0 %			-0.9 (-3 - 0)	0.00		
	1984 - Mar95: under 1 yr	34 / 188 18 %	0 / 11 0 %			-1.9 (-5 - 0)	0.00		
	1984 - Mar95: 1 to 15 years	4 / 78 5 %	0 / 1 0 %			-0.1 (-1 - 0)	0.00		
	1984 - Mar95: All ages	38 / 266 14 %	0 / 12 0 %			-2.0 (-5 - 0)	0.00		
	HES	1991 - Mar95: under 90 days	9 / 65 14 %	1 / 1 100 %			0.9 (0 - 1)	0.86	9 / 9 (4 - 9)
		1991 - Mar95: 90 days to 1 yr	2 / 33 6 %	1 / 14 7 %			0.1 (-3 - 1)	0.50	9 / 11 (1 - 9)
1991 - Mar95: 1 to 15 years		3 / 43 7 %	1 / 3 33 %			0.8 (0 - 1)	0.81	10 / 10 (3 - 10)	
1991 - Mar95: All ages		14 / 141 10 %	3 / 18 17 %			1.8 (-1 - 3)	0.86		

0 20 40 60 80 100

% Mortality Rate

Table 7.5. 3 : Summary of CSR and HES data for 3: Other TGA

	Epoch - Age	Mortality in 11 other centres		Mortality in Bristol		Estimated true mortality rates		Excess (95% int.) deaths	Prob excess > 0	Rank (95% int.)
CSR	1984 - 1987: under 1 yr	56 / 295	19 %	1 / 12	8 %		-1.4 (-5 - 1)	0.10	2 / 11 (1 - 9)	
	1984 - 1987: 1 to 15 years	10 / 128	8 %	2 / 23	9 %		0.1 (-4 - 2)	0.49	8 / 11 (2 - 10)	
	1988 - 1990: under 1 yr	60 / 353	17 %	4 / 34	12 %		-2.2 (-11 - 3)	0.26	4 / 12 (1 - 9)	
	1988 - 1990: 1 to 15 years	9 / 117	8 %	3 / 11	27 %		2.1 (0 - 3)	0.92	11 / 11 (4 - 11)	
	1991 - Mar95: under 1 yr	72 / 573	13 %	10 / 36	28 %		5.0 (-2 - 10)	0.92	12 / 12 (7 - 12)	
	1991 - Mar95: 1 to 15 years	7 / 67	10 %	0 / 9	0 %		-1.0 (-4 - 0)	0.00	4 / 12 (1 - 9)	
	1984 - 1987: All ages	66 / 423	16 %	3 / 35	9 %		-1.3 (-7 - 2)	0.23		
	1988 - 1990: All ages	69 / 470	15 %	7 / 45	16 %		-0.1 (-10 - 6)	0.50		
	1991 - Mar95: All ages	79 / 640	12 %	10 / 45	22 %		4.1 (-4 - 9)	0.87		
	1984 - Mar95: under 1 yr	188 / 1221	15 %	15 / 82	18 %		1.4 (-10 - 10)	0.60		
	1984 - Mar95: 1 to 15 years	26 / 312	8 %	5 / 43	12 %		1.3 (-4 - 5)	0.68		
	1984 - Mar95: All ages	214 / 1533	14 %	20 / 125	16 %		2.6 (-10 - 12)	0.68		
	HES	1991 - Mar95: under 90 days	54 / 531	10 %	9 / 10	90 %		7.8 (5 - 9)	1.00	12 / 12 (11 - 12)
1991 - Mar95: 90 days to 1 yr		6 / 42	14 %	1 / 3	33 %		0.6 (-1 - 1)	0.64	10 / 10 (2 - 10)	
1991 - Mar95: 1 to 15 years		3 / 47	6 %	1 / 6	17 %		0.6 (-1 - 1)	0.68	6 / 8 (2 - 8)	
1991 - Mar95: All ages		63 / 620	10 %	11 / 19	58 %		9.0 (6 - 11)	1.00		



% Mortality Rate

Table 7.5. 4 : Summary of CSR and HES data for 4: TAPVD

	Epoch - Age	Mortality in 11 other centres	Mortality in Bristol	Estimated true mortality rates	— Bristol - - - Elsewhere	Excess (95% int.) deaths	Prob excess > 0	Rank (95% int.)
CSR	1984 - 1987: under 1 yr	22 / 114 19 %	6 / 16 37 %			3.0 (-3 - 6)	0.86	10 / 11 (5 - 11)
	1984 - 1987: 1 to 15 years	2 / 24 8 %	0 / 1 0 %			-0.1 (-1 - 0)	0.00	4 / 9 (1 - 9)
	1988 - 1990: under 1 yr	18 / 140 13 %	5 / 11 45 %			3.5 (0 - 5)	0.97	11 / 12 (8 - 12)
	1988 - 1990: 1 to 15 years	1 / 26 4 %	1 / 2 50 %			0.9 (0 - 1)	0.92	9 / 9 (2 - 9)
	1991 - Mar95: under 1 yr	21 / 153 14 %	6 / 18 33 %			3.4 (-1 - 6)	0.93	11 / 12 (5 - 12)
	1991 - Mar95: 1 to 15 years	1 / 31 3 %	0 / 1 0 %			0.0 (-1 - 0)	0.00	6 / 11 (1 - 11)
	1984 - 1987: All ages	24 / 138 17 %	6 / 17 35 %			2.9 (-3 - 6)	0.85	
	1988 - 1990: All ages	19 / 166 11 %	6 / 13 46 %			4.4 (1 - 6)	0.98	
	1991 - Mar95: All ages	22 / 184 12 %	6 / 19 32 %			3.4 (-1 - 6)	0.92	
	1984 - Mar95: under 1 yr	61 / 407 15 %	17 / 45 38 %			9.9 (2 - 15)	0.99	
	1984 - Mar95: 1 to 15 years	4 / 81 5 %	1 / 4 25 %			0.8 (0 - 1)	0.81	
	1984 - Mar95: All ages	65 / 488 13 %	18 / 49 37 %			10.7 (3 - 16)	0.99	
	HES	1991 - Mar95: under 90 days	22 / 131 17 %	5 / 10 50 %			3.3 (0 - 5)	0.97
1991 - Mar95: 90 days to 1 yr		1 / 35 3 %	0 / 4 0 %			-0.1 (-1 - 0)	0.00	5 / 10 (1 - 10)
1991 - Mar95: 1 to 15 years		1 / 32 3 %	0 / 0 0 %					
1991 - Mar95: All ages		24 / 198 12 %	5 / 14 36 %			3.2 (0 - 5)	0.97	

0 20 40 60 80 100

% Mortality Rate

Table 7.5. 5 : Summary of CSR and HES data for 5: AVSD

	Epoch - Age	Mortality in 11 other centres	Mortality in Bristol	Estimated true mortality rates	— Bristol - - - Elsewhere	Excess (95% int.) deaths	Prob excess > 0	Rank (95% int.)	
CSR	1984 - 1987: under 1 yr	16 / 61 26 %	3 / 4 75 %			1.9 (0 - 3)	0.90	7 / 10 (4 - 10)	
	1984 - 1987: 1 to 15 years	22 / 118 19 %	3 / 12 25 %			0.7 (-4 - 3)	0.60	9 / 11 (2 - 11)	
	1988 - 1990: under 1 yr	28 / 146 19 %	4 / 13 31 %			1.2 (-4 - 4)	0.68	9 / 12 (3 - 12)	
	1988 - 1990: 1 to 15 years	14 / 99 14 %	4 / 8 50 %			2.7 (0 - 4)	0.95	12 / 12 (6 - 12)	
	1991 - Mar95: under 1 yr	44 / 331 13 %	8 / 32 25 %			3.5 (-3 - 8)	0.86	11 / 12 (5 - 12)	
	1991 - Mar95: 1 to 15 years	10 / 181 6 %	3 / 9 33 %			2.5 (0 - 3)	0.97	12 / 12 (7 - 12)	
	1984 - 1987: All ages	38 / 179 21 %	6 / 16 37 %			2.6 (-2 - 6)	0.85		
	1988 - 1990: All ages	42 / 245 17 %	8 / 21 38 %			3.9 (-1 - 8)	0.92		
	1991 - Mar95: All ages	54 / 512 11 %	11 / 41 27 %			5.9 (-1 - 10)	0.95		
	1984 - Mar95: under 1 yr	88 / 538 16 %	15 / 49 31 %			6.5 (-1 - 12)	0.94		
	1984 - Mar95: 1 to 15 years	46 / 398 12 %	10 / 29 34 %			5.9 (1 - 10)	0.98		
	1984 - Mar95: All ages	134 / 936 14 %	25 / 78 32 %			12.4 (3 - 20)	0.99		
	HES	1991 - Mar95: under 90 days	22 / 125 18 %	2 / 2 100 %			1.6 (0 - 2)	0.94	12 / 12 (7 - 12)
		1991 - Mar95: 90 days to 1 yr	26 / 277 9 %	9 / 21 43 %			7.0 (3 - 9)	1.00	12 / 12 (10 - 12)
1991 - Mar95: 1 to 15 years		14 / 367 4 %	1 / 11 9 %			0.5 (-1 - 1)	0.64	9 / 12 (3 - 12)	
1991 - Mar95: All ages		62 / 769 8 %	12 / 34 35 %			9.1 (5 - 12)	1.00		

0 20 40 60 80 100

% Mortality Rate

Table 7.5. 6 : Summary of CSR and HES data for 6: Closure of ASD

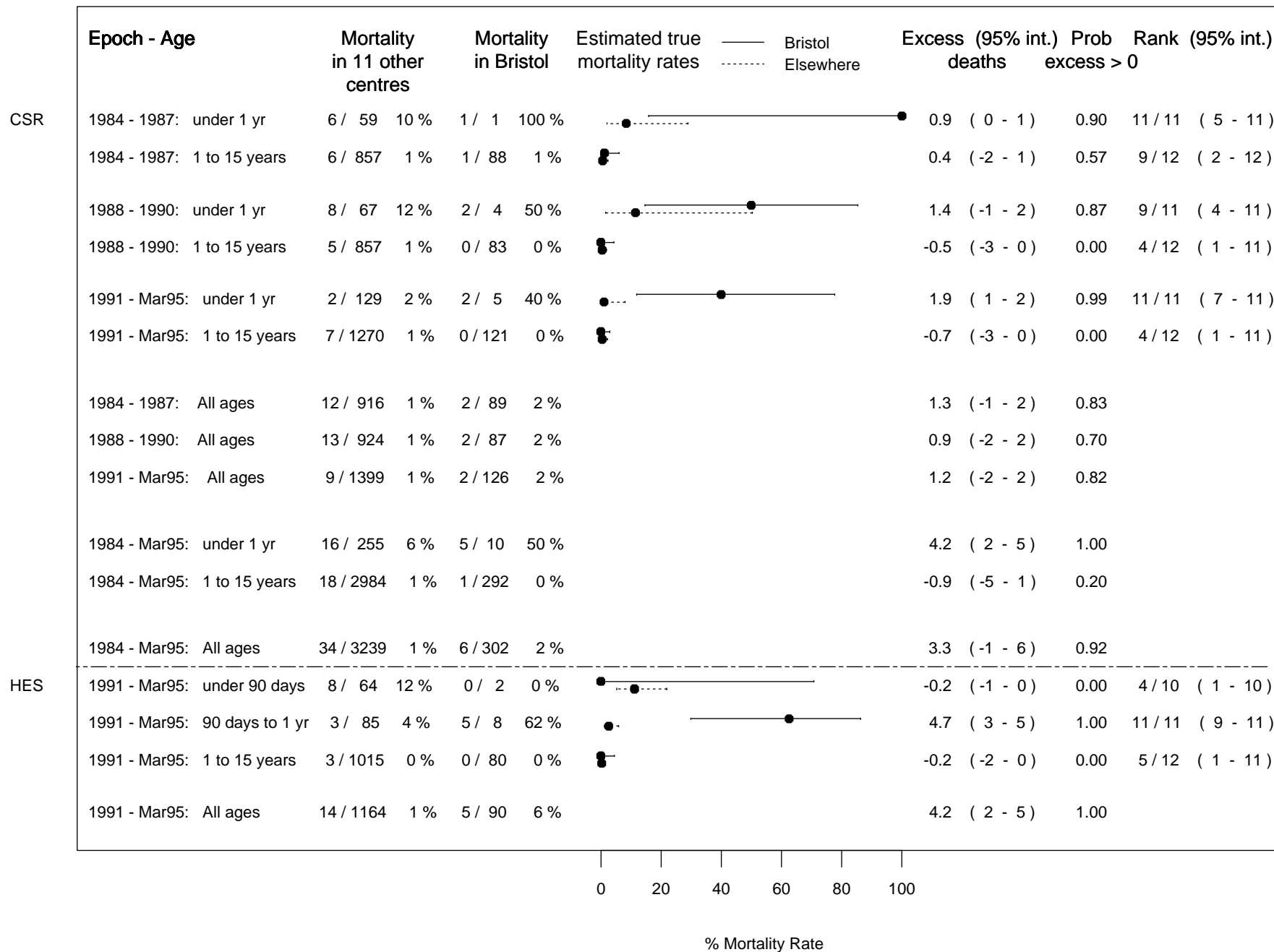

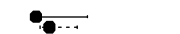

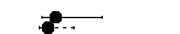


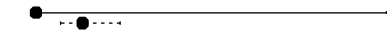

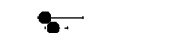


Table 7.5. 7 : Summary of CSR and HES data for 7: Closure of VSD

	Epoch - Age	Mortality in 11 other centres	Mortality in Bristol	Estimated true mortality rates	— Bristol - - - Elsewhere	Excess (95% int.) deaths	Prob excess > 0	Rank (95% int.)	
CSR	1984 - 1987: under 1 yr	34 / 338 10 %	0 / 12 0 %			-1.5 (-5 - 0)	0.00	2 / 11 (1 - 9)	
	1984 - 1987: 1 to 15 years	12 / 331 4 %	0 / 27 0 %			-1.0 (-4 - 0)	0.00	3 / 11 (1 - 10)	
	1988 - 1990: under 1 yr	24 / 434 6 %	4 / 28 14 %			2.1 (-3 - 4)	0.85	9 / 11 (6 - 11)	
	1988 - 1990: 1 to 15 years	12 / 375 3 %	2 / 42 5 %			0.6 (-3 - 2)	0.61	8 / 11 (2 - 11)	
	1991 - Mar95: under 1 yr	18 / 689 3 %	0 / 51 0 %			-1.4 (-5 - 0)	0.00	2 / 12 (1 - 10)	
	1991 - Mar95: 1 to 15 years	8 / 362 2 %	0 / 39 0 %			-1.0 (-4 - 0)	0.00	4 / 12 (1 - 10)	
	1984 - 1987: All ages	46 / 669 7 %	0 / 39 0 %			-2.5 (-7 - 0)	0.00		
	1988 - 1990: All ages	36 / 809 4 %	6 / 70 9 %			2.7 (-4 - 6)	0.84		
	1991 - Mar95: All ages	26 / 1051 2 %	0 / 90 0 %			-2.4 (-7 - 0)	0.00		
	1984 - Mar95: under 1 yr	76 / 1461 5 %	4 / 91 4 %			-0.7 (-8 - 3)	0.38		
	1984 - Mar95: 1 to 15 years	32 / 1068 3 %	2 / 108 2 %			-1.4 (-7 - 2)	0.20		
	1984 - Mar95: All ages	108 / 2529 4 %	6 / 199 3 %			-2.1 (-10 - 4)	0.25		
	HES	1991 - Mar95: under 90 days	31 / 267 12 %	0 / 1 0 %			-0.1 (-1 - 0)	0.00	1 / 12 (1 - 12)
		1991 - Mar95: 90 days to 1 yr	14 / 544 3 %	0 / 46 0 %			-1.3 (-5 - 0)	0.00	2 / 12 (1 - 10)
1991 - Mar95: 1 to 15 years		20 / 465 4 %	1 / 46 2 %			-1.0 (-5 - 1)	0.17	3 / 12 (1 - 11)	
1991 - Mar95: All ages		65 / 1276 5 %	1 / 93 1 %			-2.4 (-7 - 1)	0.05		

0 20 40 60 80 100

% Mortality Rate

Table 7.5. 8 : Summary of CSR and HES data for 8: Truncus

	Epoch - Age	Mortality in 11 other centres	Mortality in Bristol	Estimated true mortality rates	— Bristol - - - Elsewhere	Excess (95% int.) deaths	Prob excess > 0	Rank (95% int.)
CSR	1984 - 1987: under 1 yr	31 / 60 52 %	3 / 3 100 %			1.4 (0 - 3)	0.82	11 / 11 (4 - 11)
	1984 - 1987: 1 to 15 years	2 / 9 22 %	0 / 1 0 %			-0.2 (-1 - 0)	0.00	2 / 4 (1 - 4)
	1988 - 1990: under 1 yr	35 / 61 57 %	4 / 6 67 %			0.5 (-2 - 3)	0.48	8 / 11 (1 - 11)
	1988 - 1990: 1 to 15 years	3 / 7 43 %	0 / 1 0 %			-0.4 (-1 - 0)	0.00	2 / 6 (1 - 6)
	1991 - Mar95: under 1 yr	26 / 102 25 %	2 / 7 29 %			0.1 (-3 - 2)	0.44	8 / 12 (1 - 12)
	1991 - Mar95: 1 to 15 years	2 / 13 15 %	0 / 1 0 %			-0.2 (-1 - 0)	0.00	4 / 8 (1 - 8)
	1984 - 1987: All ages	33 / 69 48 %	3 / 4 75 %			1.2 (-1 - 3)	0.75	
	1988 - 1990: All ages	38 / 68 56 %	4 / 7 57 %			0.1 (-3 - 3)	0.38	
	1991 - Mar95: All ages	28 / 115 24 %	2 / 8 25 %			0.0 (-3 - 2)	0.39	
	1984 - Mar95: under 1 yr	92 / 223 41 %	9 / 16 56 %			2.1 (-2 - 6)	0.77	
	1984 - Mar95: 1 to 15 years	7 / 29 24 %	0 / 3 0 %			-0.8 (-2 - 0)	0.00	
	1984 - Mar95: All ages	99 / 252 39 %	9 / 19 47 %			1.3 (-3 - 6)	0.64	
	HES	1991 - Mar95: under 90 days	26 / 75 35 %	2 / 2 100 %			1.3 (0 - 2)	0.86
1991 - Mar95: 90 days to 1 yr		5 / 22 23 %	1 / 2 50 %			0.5 (-1 - 1)	0.61	9 / 12 (2 - 12)
1991 - Mar95: 1 to 15 years		1 / 6 17 %	0 / 1 0 %			-0.2 (-1 - 0)	0.00	3 / 6 (1 - 6)
1991 - Mar95: All ages		32 / 103 31 %	3 / 5 60 %			1.6 (-1 - 3)	0.86	

0 20 40 60 80 100

% Mortality Rate

Table 7.5. 9 : Summary of CSR and HES data for 9: Fontan type

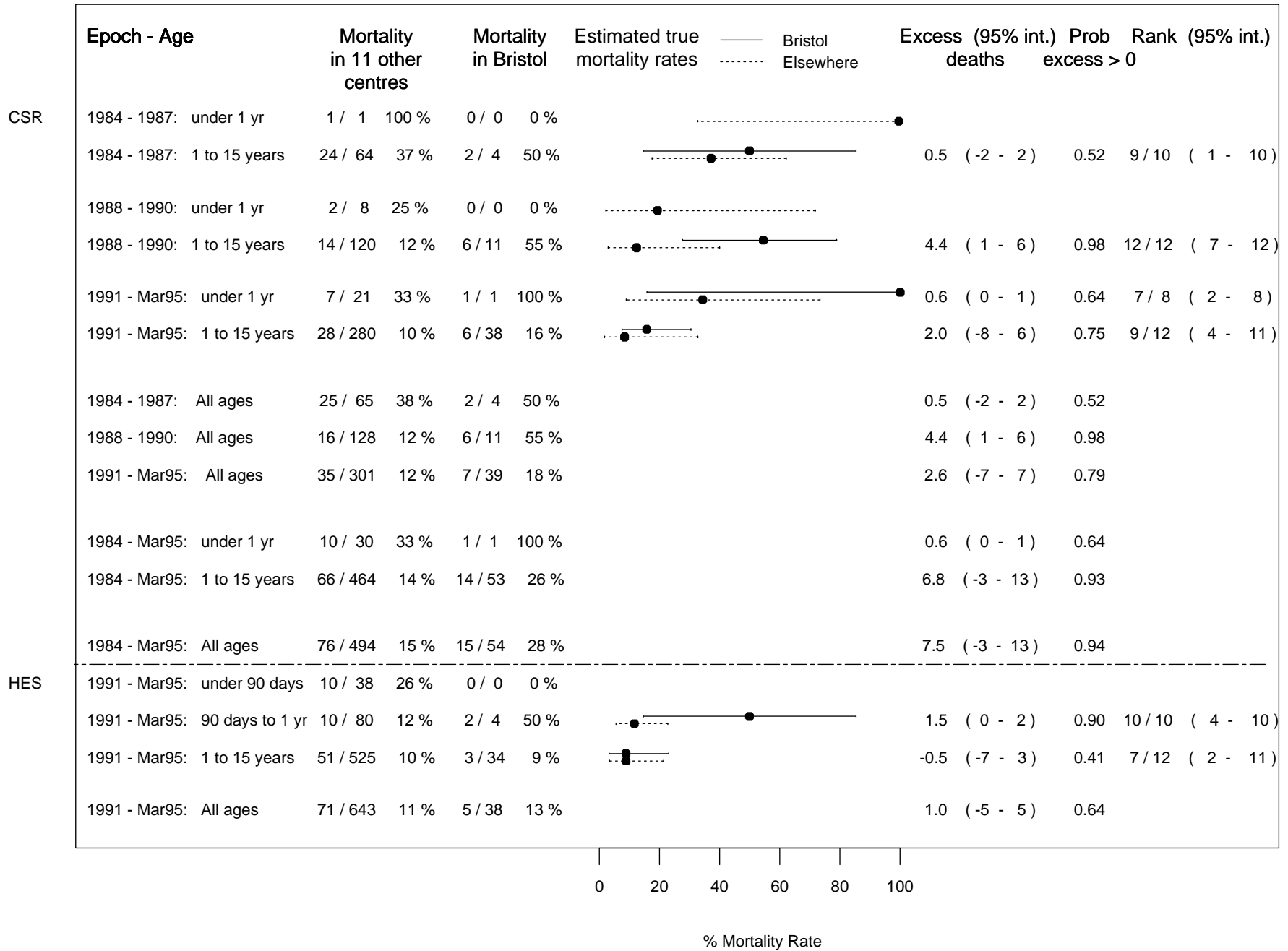


Table 7.5. 10 : Summary of CSR and HES data for 10: Aortic and pulmonary valves

	Epoch - Age	Mortality in 11 other centres	Mortality in Bristol	Estimated true mortality rates	— Bristol - - - Elsewhere	Excess (95% int.) deaths	Prob excess > 0	Rank (95% int.)
CSR	1984 - 1987: under 1 yr	38 / 158 24 %	2 / 11 18 %			-0.8 (-5 - 2)	0.25	4 / 11 (1 - 10)
	1984 - 1987: 1 to 15 years	20 / 341 6 %	0 / 27 0 %			-1.6 (-7 - 0)	0.00	3 / 12 (1 - 9)
	1988 - 1990: under 1 yr	39 / 183 21 %	1 / 6 17 %			-0.3 (-3 - 1)	0.28	6 / 12 (1 - 12)
	1988 - 1990: 1 to 15 years	23 / 331 7 %	0 / 29 0 %			-2.1 (-6 - 0)	0.00	3 / 12 (1 - 9)
	1991 - Mar95: under 1 yr	24 / 179 13 %	1 / 1 100 %			0.8 (0 - 1)	0.84	12 / 12 (5 - 12)
	1991 - Mar95: 1 to 15 years	17 / 614 3 %	0 / 33 0 %			-1.1 (-4 - 0)	0.00	2 / 12 (1 - 10)
	1984 - 1987: All ages	58 / 499 12 %	2 / 38 5 %			-2.4 (-9 - 2)	0.11	
	1988 - 1990: All ages	62 / 514 12 %	1 / 35 3 %			-2.4 (-7 - 1)	0.05	
	1991 - Mar95: All ages	41 / 793 5 %	1 / 34 3 %			-0.3 (-4 - 1)	0.34	
	1984 - Mar95: under 1 yr	101 / 520 19 %	4 / 18 22 %			-0.3 (-5 - 3)	0.39	
	1984 - Mar95: 1 to 15 years	60 / 1286 5 %	0 / 89 0 %			-4.8 (-12 - -1)	0.00	
	1984 - Mar95: All ages	161 / 1806 9 %	4 / 107 4 %			-5.1 (-13 - 1)	0.04	
	HES	1991 - Mar95: under 90 days	22 / 149 15 %	1 / 1 100 %			0.8 (0 - 1)	0.84
1991 - Mar95: 90 days to 1 yr		3 / 101 3 %	1 / 3 33 %			0.9 (0 - 1)	0.91	12 / 12 (5 - 12)
1991 - Mar95: 1 to 15 years		18 / 645 3 %	3 / 46 7 %			1.6 (-2 - 3)	0.83	11 / 12 (4 - 12)
1991 - Mar95: All ages		43 / 895 5 %	5 / 50 10 %			3.4 (0 - 5)	0.96	

0 20 40 60 80 100

% Mortality Rate

Table 7.5. 11 : Summary of CSR and HES data for 11: Mitral valves

	Epoch - Age	Mortality in 11 other centres	Mortality in Bristol	Estimated true mortality rates	— Bristol - - - Elsewhere	Excess (95% int.) deaths	Prob excess > 0	Rank (95% int.)
CSR	1984 - 1987: under 1 yr	1 / 4 25 %	0 / 0 0 %					
	1984 - 1987: 1 to 15 years	11 / 51 22 %	1 / 5 20 %			-0.1 (-2 - 1)	0.34	4 / 10 (1 - 9)
	1988 - 1990: under 1 yr	6 / 25 24 %	0 / 1 0 %			-0.2 (-1 - 0)	0.00	2 / 9 (1 - 9)
	1988 - 1990: 1 to 15 years	10 / 69 14 %	1 / 3 33 %			0.5 (-1 - 1)	0.63	12 / 12 (2 - 12)
	1991 - Mar95: under 1 yr	5 / 36 14 %	0 / 1 0 %			-0.2 (-1 - 0)	0.00	4 / 10 (1 - 10)
	1991 - Mar95: 1 to 15 years	10 / 115 9 %	0 / 8 0 %			-0.7 (-3 - 0)	0.00	2 / 11 (1 - 10)
	1984 - 1987: All ages	12 / 55 22 %	1 / 5 20 %			-0.1 (-2 - 1)	0.34	
	1988 - 1990: All ages	16 / 94 17 %	1 / 4 25 %			0.3 (-1 - 1)	0.47	
	1991 - Mar95: All ages	15 / 151 10 %	0 / 9 0 %			-0.9 (-3 - 0)	0.00	
	1984 - Mar95: under 1 yr	12 / 65 18 %	0 / 2 0 %			-0.4 (-2 - 0)	0.00	
	1984 - Mar95: 1 to 15 years	31 / 235 13 %	2 / 16 12 %			-0.3 (-4 - 2)	0.34	
	1984 - Mar95: All ages	43 / 300 14 %	2 / 18 11 %			-0.7 (-4 - 2)	0.25	
	HES	1991 - Mar95: under 90 days	6 / 11 55 %	0 / 0 0 %				
1991 - Mar95: 90 days to 1 yr		6 / 40 15 %	2 / 3 67 %			1.5 (0 - 2)	0.92	11 / 11 (5 - 11)
1991 - Mar95: 1 to 15 years		13 / 180 7 %	1 / 20 5 %			-0.4 (-4 - 1)	0.31	8 / 12 (1 - 11)
1991 - Mar95: All ages		25 / 231 11 %	3 / 23 13 %			1.1 (-3 - 3)	0.71	

0 20 40 60 80 100

% Mortality Rate

Table 7.5. 12 : Summary of CSR and HES data for 12: Closed shunts

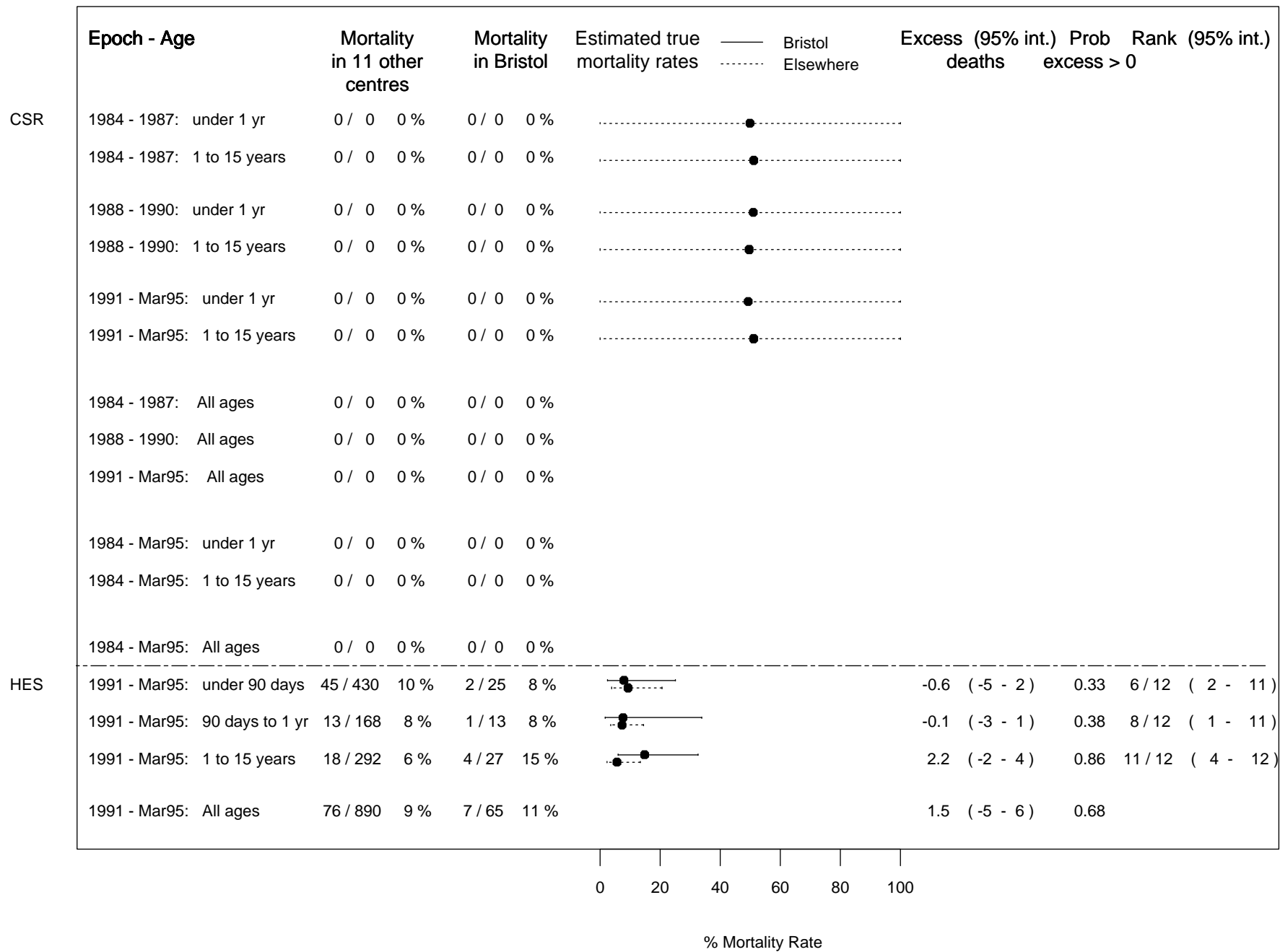


Table 7.5. 13 : Summary of CSR and HES data for 13: Simple coarctation

	Epoch - Age	Mortality in 11 other centres	Mortality in Bristol	Estimated true mortality rates	— Bristol - - - Elsewhere	Excess (95% int.) deaths	Prob excess > 0	Rank (95% int.)	
CSR	1984 - 1987: under 1 yr	7 / 302 2 %	1 / 23 4 %			0.5 (-2 - 1)	0.62	11 / 12 (2 - 12)	
	1984 - 1987: 1 to 15 years	0 / 223 0 %	0 / 35 0 %			0.0 (-1 - 0)	0.00	6 / 12 (1 - 11)	
	1988 - 1990: under 1 yr	13 / 339 4 %	0 / 19 0 %			-0.7 (-3 - 0)	0.00	4 / 12 (1 - 11)	
	1988 - 1990: 1 to 15 years	0 / 235 0 %	0 / 43 0 %			-0.1 (-1 - 0)	0.00	6 / 12 (1 - 10)	
	1991 - Mar95: under 1 yr	9 / 464 2 %	0 / 30 0 %			-0.6 (-3 - 0)	0.00	4 / 12 (1 - 12)	
	1991 - Mar95: 1 to 15 years	3 / 247 1 %	0 / 31 0 %			-0.4 (-2 - 0)	0.00	5 / 12 (1 - 11)	
	1984 - 1987: All ages	7 / 525 1 %	1 / 58 2 %			0.4 (-2 - 1)	0.59		
	1988 - 1990: All ages	13 / 574 2 %	0 / 62 0 %			-0.8 (-3 - 0)	0.00		
	1991 - Mar95: All ages	12 / 711 2 %	0 / 61 0 %			-1.0 (-4 - 0)	0.00		
	1984 - Mar95: under 1 yr	29 / 1105 3 %	1 / 72 1 %			-0.9 (-5 - 1)	0.19		
	1984 - Mar95: 1 to 15 years	3 / 705 0 %	0 / 109 0 %			-0.5 (-3 - 0)	0.00		
	1984 - Mar95: All ages	32 / 1810 2 %	1 / 181 1 %			-1.4 (-5 - 1)	0.12		
	HES	1991 - Mar95: under 90 days	15 / 372 4 %	2 / 52 4 %			-0.2 (-4 - 2)	0.42	6 / 12 (1 - 11)
		1991 - Mar95: 90 days to 1 yr	2 / 54 4 %	0 / 12 0 %			-0.4 (-2 - 0)	0.00	5 / 11 (1 - 9)
1991 - Mar95: 1 to 15 years		0 / 159 0 %	0 / 28 0 %			0.0 (0 - 0)	0.00	6 / 12 (1 - 10)	
1991 - Mar95: All ages		17 / 585 3 %	2 / 92 2 %			-0.6 (-5 - 2)	0.32		

0 20 40 60 80 100

% Mortality Rate

Table 7.5. 14 : Summary of CSR and HES data for 88: Open

	Epoch - Age	Mortality in 11 other centres	Mortality in Bristol	Estimated true mortality rates	— Bristol - - - Elsewhere	Excess (95% int.) deaths	Prob excess > 0	Rank (95% int.)
CSR	1984 - 1987: under 1 yr	267 / 1290 21 %	16 / 63 25 %			2.0 (-12 - 12)	0.65	7 / 11 (3 - 11)
	1984 - 1987: 1 to 15 years	237 / 2904 8 %	24 / 284 8 %			0.7 (-30 - 18)	0.59	7 / 12 (4 - 11)
	1988 - 1990: under 1 yr	336 / 1863 18 %	31 / 108 29 %			8.7 (-12 - 23)	0.83	10 / 12 (7 - 12)
	1988 - 1990: 1 to 15 years	224 / 3319 7 %	37 / 304 12 %			14.6 (-19 - 32)	0.88	11 / 12 (8 - 12)
	1991 - Mar95: under 1 yr	395 / 3161 12 %	43 / 181 24 %			19.0 (2 - 32)	0.98	12 / 12 (10 - 12)
	1991 - Mar95: 1 to 15 years	232 / 4503 5 %	28 / 382 7 %			5.2 (-35 - 24)	0.72	9 / 12 (6 - 10)
	1984 - 1987: All ages	504 / 4194 12 %	40 / 347 12 %			2.7 (-30 - 24)	0.63	
	1988 - 1990: All ages	560 / 5182 11 %	68 / 412 17 %			23.2 (-16 - 48)	0.91	
	1991 - Mar95: All ages	627 / 7664 8 %	71 / 563 13 %			24.1 (-18 - 49)	0.92	
	1984 - Mar95: under 1 yr	998 / 6314 16 %	90 / 352 26 %			29.6 (0 - 53)	0.97	
	1984 - Mar95: 1 to 15 years	693 / 10726 6 %	89 / 970 9 %			20.4 (-38 - 56)	0.83	
	1984 - Mar95: All ages	1691 / 17040 10 %	179 / 1322 14 %			50.0 (-14 - 94)	0.95	
	HES	1991 - Mar95: under 90 days	254 / 1615 16 %	19 / 30 63 %			13.9 (8 - 18)	1.00
1991 - Mar95: 90 days to 1 yr		102 / 1561 7 %	22 / 113 19 %			14.4 (7 - 20)	1.00	12 / 12 (11 - 12)
1991 - Mar95: 1 to 15 years		194 / 4211 5 %	21 / 314 7 %			6.0 (-14 - 17)	0.80	11 / 12 (6 - 11)
1991 - Mar95: All ages		550 / 7387 7 %	62 / 457 14 %			34.3 (13 - 49)	0.99	

0 20 40 60 80 100

% Mortality Rate

Table 7.5. 15 : Summary of CSR and HES data for 99: Closed

	Epoch - Age	Mortality in 11 other centres	Mortality in Bristol	Estimated true mortality rates	— Bristol - - - Elsewhere	Excess (95% int.) deaths	Prob excess > 0	Rank (95% int.)
CSR	1984 - 1987: under 1 yr	110 / 1814 6 %	18 / 154 12 %			8.6 (-5 - 16)	0.92	11 / 12 (8 - 12)
	1984 - 1987: 1 to 15 years	21 / 1226 2 %	3 / 120 2 %			1.0 (-4 - 3)	0.69	10 / 12 (3 - 12)
	1988 - 1990: under 1 yr	95 / 1740 5 %	12 / 152 8 %			4.1 (-21 - 12)	0.79	11 / 12 (6 - 11)
	1988 - 1990: 1 to 15 years	21 / 980 2 %	4 / 127 3 %			1.4 (-5 - 4)	0.73	9 / 12 (4 - 12)
	1991 - Mar95: under 1 yr	57 / 1839 3 %	5 / 179 3 %			-1.2 (-11 - 4)	0.38	5 / 12 (2 - 11)
	1991 - Mar95: 1 to 15 years	21 / 792 3 %	3 / 88 3 %			0.5 (-6 - 3)	0.61	8 / 12 (3 - 11)
	1984 - 1987: All ages	131 / 3040 4 %	21 / 274 8 %			9.6 (-5 - 18)	0.93	
	1988 - 1990: All ages	116 / 2720 4 %	16 / 279 6 %			5.4 (-20 - 15)	0.81	
	1991 - Mar95: All ages	78 / 2631 3 %	8 / 267 3 %			-0.7 (-12 - 6)	0.46	
	1984 - Mar95: under 1 yr	262 / 5393 5 %	35 / 485 7 %			11.5 (-17 - 27)	0.87	
	1984 - Mar95: 1 to 15 years	63 / 2998 2 %	10 / 335 3 %			2.8 (-7 - 9)	0.77	
	1984 - Mar95: All ages	325 / 8391 4 %	45 / 820 5 %			14.3 (-16 - 32)	0.89	
	HES	1991 - Mar95: under 90 days	61 / 1323 5 %	5 / 96 5 %			0.4 (-7 - 5)	0.55
1991 - Mar95: 90 days to 1 yr		17 / 461 4 %	2 / 57 4 %			-0.1 (-4 - 2)	0.42	5 / 12 (1 - 11)
1991 - Mar95: 1 to 15 years		15 / 893 2 %	0 / 89 0 %			-1.7 (-7 - 0)	0.00	4 / 12 (1 - 9)
1991 - Mar95: All ages		93 / 2677 3 %	7 / 242 3 %			-1.5 (-11 - 5)	0.35	

0 20 40 60 80 100

% Mortality Rate

Table 8.2. 1 : Summary of excess mortality associated with all centres,
derived from HES data : 1991 - Mar95: under 90 days

Group	Bristol	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12
1: Fallot type	NA	-0.2	-0.4	0.5	NA	0.8	-2.0	-1.6	NA	0.7	-0.8	0.8
2: Interatrial TGA	0.9	-1.0	-0.3	-0.2	NA	1.4	-0.5	-0.9	NA	0.6	NA	0.4
3: Other TGA	7.8 *	-0.7	-6.8	0.1	-5.1	1.4	-0.8	-11.1	-2.6	0.7	-19.3	-2.4
4: TAPVD	3.3	-0.6	-1.5	0.0	1.3	-1.5	-1.7	1.2	0.7	NA	-0.8	-1.2
5: AVSD	1.6	0.6	-5.1	0.8	3.0	-0.5	0.9	-3.2	0.8	0.8	-6.4	-1.0
6: Closure of ASD	-0.2	1.9	-1.4	1.1	NA	-0.5	NA	-0.8	-0.1	0.0	0.8	-0.4
7: Closure of VSD	-0.1	-1.6	-1.6	0.5	0.3	-0.4	-1.6	1.9	-0.8	1.1	-2.4	3.7
8: Truncus	1.3	0.5	-3.7	0.6	-1.4	-2.3	0.9	1.0	0.9	-0.4	0.1	0.5
9: Fontan type	NA	-0.3	-0.3	NA	0.8	0.8	-0.1	-0.6	NA	-0.3	0.4	-0.3
10: Aortic/pulm valv	0.8	0.7	-0.6	2.2	-0.2	-4.0	-0.8	1.1	0.3	-1.1	-2.5	1.0
11: Mitral valves	NA	NA	NA	1.1	-0.6	-0.6	NA	0.5	NA	NA	-0.2	NA
12: Closed shunts	-0.6	-3.3	-2.1	-1.3	0.8	7.1	0.4	-2.8	1.0	3.5	1.6	-3.8
13: Simple coarct	-0.2	1.9	0.8	0.0	-0.2	0.8	-0.7	-0.9	-0.2	0.5	0.2	-3.0

Groups 1-13: Total	14.6 *	-2.1	-23.1	5.4	-1.3	2.5	-6.0	-16.2	0.0	6.1	-29.3	-5.7

Open	13.9 *	-4.1	-25.5	4.6	1.0	-5.0	-7.5	-17.1	0.5	-0.1	-31.3	-4.8
Closed	0.4	1.4	-1.5	-1.1	0.9	7.0	-1.3	0.4	-0.6	1.2	-2.9	-7.8

Open/closed: Total	14.3 *	-2.6	-26.9	3.4	1.9	2.0	-8.8	-16.8	-0.1	1.0	-34.1	-12.6

* indicates 99 % certainty that excess mortality occurred:				NA indicates 'not applicable'								

Table 8.2. 2 : Summary of excess mortality associated with all centres,
derived from HES data : 1991 - Mar95: 90 days to 1 yr

Group	Bristol	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12
1: Fallot type	-0.2	-0.7	-0.4	-0.2	0.7	1.3	-0.2	0.1	-0.5	1.2	-1.0	-1.0
2: Interatrial TGA	0.1	0.8	-0.4	NA	-0.2	-0.1	-0.1	0.7	-0.2	-0.2	-0.1	-0.4
3: Other TGA	0.6	NA	1.0	NA	-0.5	-0.2	-0.9	-1.2	0.6	-0.3	0.9	-0.2
4: TAPVD	-0.1	0.0	-0.1	-0.1	NA	-0.2	-0.1	1.0 *	-0.1	NA	-0.3	-0.1
5: AVSD	7.0 *	2.1	-0.3	-0.9	-1.7	-3.6	-2.1	-2.0	0.6	0.3	-2.7	0.1
6: Closure of ASD	4.7 *	-0.6	-0.1	-0.2	NA	-0.8	-0.6	1.1	-0.2	-0.9	-1.2	-1.4
7: Closure of VSD	-1.3	1.0	-1.6	2.3	1.3	-1.7	0.0	-1.3	-1.0	1.0	-1.6	0.8
8: Truncus	0.5	0.8	-0.3	1.6	0.8	-0.6	-0.3	-0.3	-1.2	-0.3	-0.7	-0.6
9: Fontan type	1.5	-0.2	NA	NA	-0.9	2.4	0.4	-0.1	-0.3	0.6	-4.7	-0.7
10: Aortic/pulm valv	0.9	0.8	-0.1	-0.2	-0.2	-1.1	-0.4	-0.4	-0.2	-0.3	0.2	0.6
11: Mitral valves	1.5	-0.4	-0.6	NA	-0.2	0.0	-0.8	2.1	0.7	-0.4	-0.2	-2.1
12: Closed shunts	-0.1	-1.0	-0.3	-0.4	-0.2	-1.6	0.8	1.1	-0.8	1.4	1.6	-2.1
13: Simple coarct	-0.4	-0.2	-0.2	0.9	NA	-0.2	-0.1	0.8	0.0	-0.1	-0.1	-0.4

Groups 1-13: Total	14.8 *	2.5	-3.5	2.8	-1.1	-6.3	-4.3	1.5	-2.8	2.0	-9.9	-7.3

Open	14.4 *	1.9	-3.6	0.6	-0.9	-7.0	-4.0	-0.7	-1.0	2.6	-6.3	-6.6
Closed	-0.1	-0.7	0.0	-1.4	0.4	-0.1	-0.7	0.5	-1.0	1.2	0.5	0.9

Open/closed: Total	14.3 *	1.2	-3.6	-0.9	-0.4	-7.0	-4.7	-0.2	-1.9	3.8	-5.9	-5.7

* indicates 99 % certainty that excess mortality occurred:				NA indicates 'not applicable'								

Table 8.2. 3 : Summary of excess mortality associated with all centres,
derived from HES data : 1991 - Mar95: 1 to 15 years

Group	Bristol	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12
1: Fallot type	2.8	-0.2	-1.5	-0.6	-3.0	-0.9	-0.8	-1.5	0.2	7.0 *	-0.6	-3.1
2: Interatrial TGA	0.8	-0.2	-0.6	NA	NA	-0.4	-0.3	0.7	-0.5	-0.6	-0.5	1.5
3: Other TGA	0.6	NA	0.9	NA	-0.4	-0.5	0.7	-0.2	NA	NA	-1.3	-0.5
4: TAPVD	NA	-0.1	-0.1	0.0	0.0	-0.1	-0.2	-0.2	1.0 *	NA	-0.1	-0.1
5: AVSD	0.5	0.2	2.1	0.7	-2.0	-0.7	0.2	-1.9	-1.7	-0.3	-2.2	1.5
6: Closure of ASD	-0.2	-0.2	-0.4	0.9	0.0	0.5	-0.2	-0.6	-0.1	-0.2	0.7	-0.4
7: Closure of VSD	-1.0	-1.0	0.1	-1.3	0.2	0.2	-0.1	-1.6	0.8	1.8	0.6	0.3
8: Truncus	-0.2	NA	NA	NA	NA	-0.2	-0.2	-0.2	-0.2	1.0 *	NA	NA
9: Fontan type	-0.5	-1.4	-1.2	0.7	-3.7	-2.8	-2.6	1.0	2.6	6.1	-4.6	2.9
10: Aortic/pulm valv	1.6	-0.1	0.9	-0.7	0.0	-3.0	0.2	-1.0	-0.8	2.8	-2.4	0.2
11: Mitral valves	-0.4	-0.2	0.0	-0.3	1.4	-2.3	-0.5	4.6	-0.8	-0.9	0.6	-1.4
12: Closed shunts	2.2	-0.8	1.1	0.0	0.3	-2.2	-0.8	0.1	0.4	2.9	-1.8	-4.5
13: Simple coarct	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Groups 1-13: Total	6.2	-4.0	1.2	-0.6	-7.2	-12.3	-4.5	-0.7	0.9	19.7 *	-11.6	-3.6

Open	6.0	-6.3	-0.7	-2.7	-3.9	-11.2	-7.1	-0.4	2.5	22.4 *	-13.7	1.9
Closed	-1.7	-1.3	-2.6	0.8	-0.2	-1.7	-0.4	-3.0	1.8	4.5 *	1.5	-2.4

Open/closed: Total	4.3	-7.6	-3.3	-2.0	-4.2	-12.9	-7.4	-3.4	4.3	26.9 *	-12.2	-0.5

* indicates 99 % certainty that excess mortality occurred:				NA indicates 'not applicable'								

Table 8.2. 4 : Summary of excess mortality associated with all centres,
derived from HES data : 1991 - Mar95: All ages

Group	Bristol	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12
1: Fallot type	2.7	-1.0	-2.4	-0.3	-2.3	1.3	-2.9	-3.1	-0.3	8.9 *	-2.5	-3.2
2: Interatrial TGA	1.8	-0.4	-1.3	-0.2	-0.2	0.8	-0.8	0.5	-0.7	-0.2	-0.6	1.6
3: Other TGA	9.0 *	-0.7	-4.9	0.1	-6.0	0.8	-1.0	-12.5	-2.0	0.3	-19.7	-3.1
4: TAPVD	3.2	-0.7	-1.7	-0.1	1.3	-1.8	-1.9	2.0	1.6	NA	-1.2	-1.5
5: AVSD	9.1 *	2.9	-3.4	0.6	-0.6	-4.8	-1.0	-7.2	-0.3	0.9	-11.3	0.5
6: Closure of ASD	4.2 *	1.1	-2.0	1.8	0.0	-0.8	-0.8	-0.3	-0.4	-1.0	0.4	-2.2
7: Closure of VSD	-2.4	-1.6	-3.2	1.6	1.9	-1.9	-1.7	-1.0	-1.0	3.9	-3.4	4.9
8: Truncus	1.6	1.3	-4.0	2.2	-0.6	-3.1	0.5	0.5	-0.5	0.3	-0.6	-0.1
9: Fontan type	1.0	-1.9	-1.5	0.7	-3.8	0.4	-2.3	0.3	2.3	6.4	-8.9	1.9
10: Aortic/pulm valv	3.4	1.4	0.2	1.3	-0.4	-8.0	-1.0	-0.4	-0.7	1.4	-4.7	1.8
11: Mitral valves	1.1	-0.6	-0.6	0.8	0.6	-2.9	-1.4	7.2 *	-0.1	-1.3	0.2	-3.5
12: Closed shunts	1.5	-5.0	-1.3	-1.7	1.0	3.2	0.4	-1.6	0.6	7.8 *	1.4	-10.4
13: Simple coarct	-0.6	1.6	0.5	0.9	-0.2	0.7	-0.8	-0.1	-0.2	0.4	0.0	-3.3

Groups 1-13: Total	35.6 *	-3.6	-25.4	7.7	-9.5	-16.1	-14.8	-15.4	-1.8	27.8 *	-50.9	-16.6

Open	34.3 *	-8.5	-29.7	2.4	-3.8	-23.2	-18.5	-18.3	2.1	24.9	-51.3	-9.5
Closed	-1.5	-0.6	-4.1	-1.8	1.1	5.3	-2.4	-2.1	0.3	6.8 *	-0.9	-9.2

Open/closed: Total	32.8 *	-9.1	-33.8	0.6	-2.7	-18.0	-20.9	-20.4	2.3	31.8 *	-52.2	-18.8

* indicates 99 % certainty that excess mortality occurred:				NA indicates 'not applicable'								

Table 8.3. 1 : Summary of excess mortality associated with all centres,
derived from CSR data : 1984 - 1987: under 1 yr

Group	Bristol	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12
1: Fallot type	NA	-1.1	NA	NA	0.7	1.1	-2.1	-0.7	-0.5	0.8	0.7	-0.2
2: Interatrial TGA	-0.5	0.7	-0.1	NA	0.4	0.6	-0.2	1.0	-1.2	-1.7	-0.6	1.1
3: Other TGA	-1.4	0.4	-0.4	NA	0.6	1.2	-3.6	-4.0	1.6	-1.3	3.5	-1.6
4: TAPVD	3.0	-0.7	-0.7	NA	4.4	1.4	-0.5	2.1	-1.8	-1.3	-0.7	-4.3
5: AVSD	1.9	0.7	0.7	NA	-1.1	-1.7	-3.2	2.0	0.7	NA	-1.4	-1.8
6: Closure of ASD	0.9	-0.4	-0.1	NA	-1.3	1.8	-0.2	0.4	-0.4	-0.5	-0.2	-0.1
7: Closure of VSD	-1.5	-2.8	1.2	NA	1.0	-5.9	-2.8	-0.7	0.2	3.0	3.8	-3.5
8: Truncus	1.4	-1.2	-0.2	NA	0.9	0.1	-5.0	1.5	-0.7	0.9	1.9	-1.2
9: Fontan type	NA	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10: Aortic/pulm valv	-0.8	0.2	-0.3	NA	0.6	2.2	-6.3	-0.7	2.4	-0.8	2.1	-1.4
11: Mitral valves	NA	NA	NA	NA	NA	1.0	NA	-1.0	NA	NA	NA	-0.3
12: Closed shunts	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
13: Simple coarct	0.5	-0.4	-1.0	-0.1	-0.7	0.9	1.4	-0.2	-0.3	-0.2	-0.6	0.7

Groups 1-13: Total	3.5	-3.9	-0.9	-0.1	5.6	2.7	-22.3	-0.4	-0.1	-1.1	8.5	-12.5

Open	2.0	-4.4	1.9	NA	4.5	-8.1	-25.8	1.3	-0.5	3.6	13.9	-16.0
Closed	8.6	-0.8	-6.7	-1.5	15.5	-1.8	-2.8	-3.8	2.3	-2.4	-7.8	-1.4

Open/closed: Total	10.6	-5.2	-4.7	-1.5	20.0	-9.9	-28.7	-2.5	1.8	1.2	6.0	-17.4

* indicates 99 % certainty that excess mortality occurred:				NA indicates 'not applicable'								

Table 8.3. 2 : Summary of excess mortality associated with all centres,
derived from CSR data : 1984 - 1987: 1 to 15 years

Group	Bristol	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12
1: Fallot type	3.6	-0.4	0.5	NA	1.2	-4.2	-1.7	-4.4	4.9	-1.0	0.6	-4.0
2: Interatrial TGA	NA	-0.1	-0.1	NA	-0.1	1.0	0.0	-0.1	-0.2	0.0	-0.2	-0.1
3: Other TGA	0.1	0.6	-0.2	NA	1.7	-0.1	-0.8	0.9	-0.5	0.0	-0.9	-1.5
4: TAPVD	-0.1	-0.6	-0.2	NA	NA	0.5	-0.1	1.0	NA	-0.1	-0.3	-0.3
5: AVSD	0.7	0.2	-1.1	NA	3.7	0.7	-1.9	1.0	0.6	0.2	-4.1	-0.8
6: Closure of ASD	0.4	0.4	1.5	-0.1	-0.7	-0.1	-0.8	0.5	0.3	-0.3	-0.4	-1.0
7: Closure of VSD	-1.0	-0.4	-0.6	NA	-1.1	-1.0	1.3	0.7	-0.4	-0.4	2.0	0.6
8: Truncus	-0.2	NA	NA	NA	NA	1.8	NA	NA	NA	-0.2	NA	-0.8
9: Fontan type	0.5	0.2	-0.6	NA	-0.8	0.8	1.1	-0.9	NA	0.1	0.2	-1.3
10: Aortic/pulm valv	-1.6	-0.6	1.4	-0.1	0.0	-1.3	-2.5	9.4 *	-0.1	-0.2	-0.8	-2.8
11: Mitral valves	-0.1	NA	0.8	NA	-0.7	-0.6	0.6	0.1	0.6	0.5	0.0	-1.8
12: Closed shunts	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
13: Simple coarct	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Groups 1-13: Total	2.3	-0.7	1.4	-0.2	3.0	-2.6	-4.9	8.1	5.1	-1.4	-3.8	-13.8

Open	0.7	-9.6	-1.3	-1.3	1.8	2.2	-11.6	15.4	4.4	15.7	-0.8	-19.6
Closed	1.0	-1.7	-1.2	-0.6	4.5	1.6	-0.5	0.6	-1.2	-0.7	-1.9	0.0

Open/closed: Total	1.7	-11.2	-2.4	-1.9	6.3	3.8	-12.0	16.0	3.2	15.0	-2.7	-19.6

* indicates 99 % certainty that excess mortality occurred:				NA indicates 'not applicable'								

Table 8.3. 3 : Summary of excess mortality associated with all centres,
derived from CSR data : 1988 - 1990: under 1 yr

Group	Bristol	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12
1: Fallot type	1.8	0.9	-0.9	-0.1	-0.2	-0.6	-1.5	-0.8	-0.5	0.0	1.0	0.1
2: Interatrial TGA	-0.6	-0.2	NA	-0.4	3.3	-0.2	0.5	-2.1	-0.4	NA	0.8	NA
3: Other TGA	-2.2	-1.5	9.4	0.8	-1.3	-0.8	-0.8	0.9	-2.0	3.4	-11.4	0.7
4: TAPVD	3.5	-0.2	-2.6	-0.7	2.7	-1.0	-1.8	-0.7	0.2	1.4	-2.0	-1.3
5: AVSD	1.2	2.3	0.1	-0.4	0.9	-4.0	0.2	2.0	1.4	-0.1	-8.0	-1.5
6: Closure of ASD	1.4	0.8	NA	-0.4	-0.4	1.6	0.6	-3.5	0.7	0.8	-2.8	-2.8
7: Closure of VSD	2.1	0.1	-1.5	NA	3.8	-1.3	-2.9	-2.7	-2.5	4.2 *	-5.0	-1.4
8: Truncus	0.5	0.2	0.8	NA	0.7	-1.7	0.3	-0.7	-1.3	0.9	-0.8	0.2
9: Fontan type	NA	-0.3	NA	NA	NA	NA	-0.3	-0.3	-0.3	0.9	0.9	-0.7
10: Aortic/pulm valv	-0.3	-1.3	4.7	0.5	2.8	-0.4	-5.3	2.1	-1.1	-0.9	-1.7	-0.6
11: Mitral valves	-0.2	-0.2	-0.2	NA	NA	0.4	0.3	-0.2	NA	0.3	0.2	-0.2
12: Closed shunts	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
13: Simple coarct	-0.7	0.4	-0.2	-0.5	-0.9	3.0	-1.1	1.1	-0.6	-0.4	-1.4	1.4

Groups 1-13: Total	6.3	1.1	9.6	-1.3	11.4	-5.2	-11.8	-5.1	-6.6	10.5 *	-30.1	-6.0

Open	8.7	-1.1	6.7	4.7	4.0	-9.2	-16.0	-22.7	-6.3	16.2	-40.2	-5.3
Closed	4.1	1.4	1.3	-2.4	21.8	1.4	-6.5	0.2	-8.8	-2.3	-11.8	0.5

Open/closed: Total	12.7	0.4	7.9	2.3	25.8	-7.8	-22.4	-22.5	-15.1	14.0	-52.0	-4.8

* indicates 99 % certainty that excess mortality occurred:				NA indicates 'not applicable'								

Table 8.3. 4 : Summary of excess mortality associated with all centres,
derived from CSR data : 1988 - 1990: 1 to 15 years

Group	Bristol	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12
1: Fallot type	3.0	0.8	1.7	1.3	-0.8	1.9	-1.7	-8.5	1.0	-0.6	-8.5	1.1
2: Interatrial TGA	NA	NA	-0.1	NA	-0.3	NA	NA	-0.4	NA	-0.1	1.8	-0.1
3: Other TGA	2.1	-0.2	-1.5	NA	-0.1	1.3	-0.4	-1.9	-0.2	0.2	0.1	-0.5
4: TAPVD	0.9	-0.1	-0.1	NA	NA	-0.2	NA	0.6	-0.1	-0.1	-0.2	-1.2
5: AVSD	2.7	-0.2	-0.4	-0.6	0.6	-1.3	1.1	-1.4	-0.2	0.4	-4.7	0.4
6: Closure of ASD	-0.5	-0.3	1.6	-0.4	-0.3	0.5	-0.6	0.3	-0.5	-0.1	-0.5	0.7
7: Closure of VSD	0.6	0.0	2.0	NA	0.8	-0.4	-0.6	-0.8	0.4	-0.2	-1.5	-1.3
8: Truncus	-0.4	NA	NA	0.7	NA	NA	0.7	-1.0	NA	-0.4	0.3	NA
9: Fontan type	4.4	-0.2	1.3	-0.2	0.6	1.1	-2.0	-3.4	-0.6	1.4	-8.6	-0.9
10: Aortic/pulm valv	-2.1	0.5	0.7	-0.3	3.6	3.1	-2.2	-0.3	-0.7	-0.5	-1.0	-0.9
11: Mitral valves	0.5	-0.2	0.3	-0.2	0.6	0.1	0.2	-1.3	-0.5	-0.2	0.3	-0.3
12: Closed shunts	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
13: Simple coarct	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0

Groups 1-13: Total	11.2 *	0.1	5.6	0.4	4.6	6.1	-5.5	-18.1	-1.4	-0.2	-22.5	-2.8

Open	14.6	-0.5	4.6	-6.0	1.2	13.6	-11.8	-27.4	-6.3	16.6	-22.3	-5.3
Closed	1.4	0.2	1.8	-0.8	-0.5	-1.9	-1.7	3.7	-0.4	-0.7	-2.4	2.8

Open/closed: Total	15.9	-0.3	6.4	-6.7	0.7	11.7	-13.5	-23.7	-6.8	15.9 *	-24.7	-2.5

* indicates 99 % certainty that excess mortality occurred:				NA indicates 'not applicable'								

Table 8.3. 5 : Summary of excess mortality associated with all centres,
derived from CSR data : 1991 - Mar95: under 1 yr

Group	Bristol	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12
1: Fallot type	-0.2	0.7	0.1	1.0	1.1	0.0	-0.9	0.9	-2.5	1.7	-1.6	-2.6
2: Interatrial TGA	-0.8	-0.5	NA	0.5	-1.1	2.9	0.2	0.6	-0.8	1.3	-0.5	-0.6
3: Other TGA	5.0	-1.6	1.5	1.3	-1.6	2.3	-1.2	5.3	0.2	-0.7	-17.6	-3.3
4: TAPVD	3.4	-0.5	-1.2	1.2	-0.1	-2.6	-1.0	-0.3	-1.5	1.5	-0.9	0.9
5: AVSD	3.5	0.0	-1.9	-0.6	2.4	-1.6	-0.4	-2.3	2.1	3.0	-6.1	-1.5
6: Closure of ASD	1.9 *	-0.6	NA	-1.2	0.9	-0.6	-0.2	-0.6	0.8	-0.3	-1.0	-0.3
7: Closure of VSD	-1.4	0.8	0.2	-0.8	-0.1	0.1	0.6	0.6	-0.5	-0.3	-0.3	0.5
8: Truncus	0.1	0.7	-0.1	0.5	2.6	-0.7	0.0	-2.0	-0.6	0.2	-1.4	-0.4
9: Fontan type	0.6	NA	NA	0.6	-3.1	NA	NA	-0.3	0.9	0.2	-1.4	0.6
10: Aortic/pulm valv	0.8	1.6	3.1	-0.7	0.4	-4.9	0.7	-3.8	1.7	-0.9	-5.3	-2.2
11: Mitral valves	-0.2	-0.2	NA	NA	-0.3	0.7	-0.9	1.3	0.9	-0.2	-3.1	0.4
12: Closed shunts	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
13: Simple coarct	-0.6	0.4	0.5	-0.5	-0.5	-0.7	1.4	2.0	-1.1	-0.2	-1.3	0.0

Groups 1-13: Total	12.3 *	0.8	2.4	1.5	0.5	-5.1	-1.7	1.5	-0.7	5.3	-40.4	-8.5

Open	19.0	-1.4	4.1	-5.5	5.6	-11.3	-9.8	5.3	-2.6	5.4	-41.3	-6.7
Closed	-1.2	0.1	2.1	0.7	2.4	3.8	-2.1	-0.7	-2.6	2.6	-8.8	-3.5

Open/closed: Total	17.8	-1.3	6.2	-4.8	8.0	-7.5	-11.9	4.6	-5.2	8.0	-50.1	-10.2

* indicates 99 % certainty that excess mortality occurred:				NA indicates 'not applicable'								

Table 8.3. 6 : Summary of excess mortality associated with all centres,
derived from CSR data : 1991 - Mar95: 1 to 15 years

Group	Bristol	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12
1: Fallot type	3.1	-0.8	-1.5	0.6	-1.3	-3.2	-0.7	-1.4	-0.4	2.2	-1.4	3.1
2: Interatrial TGA	-0.1	0.0	1.0 *	NA	0.0	-0.1	0.0	-0.3	0.0	NA	-0.2	-0.5
3: Other TGA	-1.0	-0.2	0.7	-0.2	0.5	-0.5	0.4	0.3	-0.2	-1.7	0.5	0.9
4: TAPVD	0.0	-0.1	-0.1	NA	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.9	-0.1
5: AVSD	2.5	-1.7	0.5	-0.1	-0.2	0.6	-0.2	-4.1	-0.1	0.6	-2.6	2.2
6: Closure of ASD	-0.7	-0.8	2.7 *	-0.1	-0.8	1.2	0.4	-0.6	-0.7	-0.5	-1.0	0.2
7: Closure of VSD	-1.0	-0.5	0.4	1.9	-0.4	0.1	-0.7	-1.4	-0.8	0.2	0.0	1.2
8: Truncus	-0.2	NA	0.9	NA	NA	-0.8	NA	-0.2	-0.3	0.7	-0.2	-0.2
9: Fontan type	2.0	-2.0	-0.7	0.8	-0.5	-2.7	-0.9	-2.1	1.3	7.7 *	-1.5	-3.0
10: Aortic/pulm valv	-1.1	-1.2	1.5	1.7	2.2	-3.2	-1.4	-1.2	0.0	1.0	-0.9	-2.2
11: Mitral valves	-0.7	0.7	0.8	NA	1.2	0.2	0.1	-1.0	-0.8	0.1	0.0	-1.3
12: Closed shunts	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
13: Simple coarct	-0.4	0.8	0.7	-0.2	-0.1	-0.1	0.7	-0.2	-0.3	-0.1	-0.3	-0.6

Groups 1-13: Total	2.4	-5.8	6.9	4.4 *	0.4	-8.8	-2.5	-12.3	-2.4	10.0 *	-6.6	-0.4

Open	5.2	-16.0	5.3	5.2	-0.4	-6.0	-14.2	-15.1	-9.9	28.1	-20.2	-3.4
Closed	0.5	3.2	-1.4	-0.5	-1.1	-0.6	-0.9	-2.2	3.6	0.9	-4.4	0.7

Open/closed: Total	5.6	-12.9	3.9	4.7	-1.4	-6.6	-15.1	-17.3	-6.3	29.0 *	-24.6	-2.7

* indicates 99 % certainty that excess mortality occurred:				NA indicates 'not applicable'								

Table 8.3. 7 : Summary of excess mortality associated with all centres,
derived from CSR data : 1984 - 1987: All ages

Group	Bristol	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12
1: Fallot type	3.6	-1.5	0.5	NA	1.9	-3.1	-3.7	-5.1	4.4	-0.2	1.4	-4.1
2: Interatrial TGA	-0.5	0.6	-0.2	NA	0.3	1.5	-0.2	0.9	-1.4	-1.7	-0.8	1.0
3: Other TGA	-1.3	1.0	-0.6	NA	2.3	1.1	-4.4	-3.0	1.0	-1.3	2.6	-3.1
4: TAPVD	2.9	-1.2	-0.9	NA	4.4	1.9	-0.6	3.1	-1.8	-1.4	-1.0	-4.6
5: AVSD	2.6	0.9	-0.4	NA	2.5	-1.1	-5.1	3.0	1.3	0.2	-5.5	-2.6
6: Closure of ASD	1.3	0.0	1.4	-0.1	-2.0	1.7	-0.9	1.0	-0.1	-0.8	-0.7	-1.0
7: Closure of VSD	-2.5	-3.2	0.6	NA	-0.1	-6.9	-1.5	0.0	-0.2	2.6	5.8	-2.9
8: Truncus	1.2	-1.2	-0.2	NA	0.9	2.0	-5.0	1.5	-0.7	0.7	1.9	-2.0
9: Fontan type	0.5	0.7	-0.6	NA	-0.8	0.8	1.1	-0.9	NA	0.1	0.2	-1.3
10: Aortic/pulm valv	-2.4	-0.4	1.1	-0.1	0.6	0.8	-8.8	8.7	2.3	-1.0	1.3	-4.2
11: Mitral valves	-0.1	NA	0.8	NA	-0.7	0.3	0.6	-0.9	0.6	0.5	0.0	-2.1
12: Closed shunts	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
13: Simple coarct	0.4	-0.4	-1.0	-0.1	-0.7	0.8	1.4	-0.2	-0.3	-0.2	-0.6	0.7

Groups 1-13: Total	5.7	-4.6	0.5	-0.3	8.6	0.0	-27.2	7.8	5.0	-2.5	4.7	-26.4

Open	2.7	-14.0	0.6	-1.3	6.3	-5.9	-37.4	16.7	3.9	19.3	13.1	-35.5
Closed	9.6	-2.4	-7.8	-2.1	20.0 *	-0.2	-3.3	-3.2	1.0	-3.1	-9.7	-1.5

Open/closed: Total	12.2	-16.4	-7.2	-3.4	26.3	-6.1	-40.7	13.5	4.9	16.2	3.4	-37.0

* indicates 99 % certainty that excess mortality occurred:				NA indicates 'not applicable'								

Table 8.3. 8 : Summary of excess mortality associated with all centres,
derived from CSR data : 1988 - 1990: All ages

Group	Bristol	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12
1: Fallot type	4.8	1.7	0.8	1.2	-1.0	1.3	-3.2	-9.2	0.5	-0.5	-7.6	1.3
2: Interatrial TGA	-0.6	-0.2	-0.1	-0.4	3.0	-0.2	0.5	-2.6	-0.4	-0.1	2.6	-0.1
3: Other TGA	-0.1	-1.7	7.8	0.8	-1.4	0.5	-1.3	-1.0	-2.2	3.6	-11.2	0.2
4: TAPVD	4.4	-0.3	-2.7	-0.7	2.7	-1.1	-1.8	-0.2	0.1	1.3	-2.2	-2.5
5: AVSD	3.9	2.1	-0.3	-1.0	1.5	-5.3	1.3	0.6	1.2	0.3	-12.7	-1.0
6: Closure of ASD	0.9	0.6	1.6	-0.8	-0.7	2.1	0.0	-3.2	0.1	0.7	-3.3	-2.2
7: Closure of VSD	2.7	0.1	0.5	NA	4.5	-1.8	-3.5	-3.5	-2.1	4.0	-6.4	-2.6
8: Truncus	0.1	0.2	0.8	0.7	0.7	-1.7	1.0	-1.7	-1.3	0.4	-0.5	0.2
9: Fontan type	4.4	-0.5	1.3	-0.2	0.6	1.1	-2.3	-3.7	-0.9	2.2	-7.7	-1.5
10: Aortic/pulm valv	-2.4	-0.8	5.4	0.2	6.4	2.7	-7.5	1.8	-1.8	-1.4	-2.8	-1.5
11: Mitral valves	0.3	-0.4	0.0	-0.2	0.6	0.4	0.5	-1.5	-0.5	0.2	0.5	-0.5
12: Closed shunts	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
13: Simple coarct	-0.8	0.4	-0.2	-0.6	-0.9	3.0	-1.1	1.0	-0.6	-0.4	-1.4	1.3

Groups 1-13: Total	17.6 *	1.3	15.2	-0.8	16.0 *	0.9	-17.3	-23.2	-8.0	10.3	-52.6	-8.8

Open	23.2	-1.6	11.2	-1.2	5.2	4.4	-27.7	-50.2	-12.6	32.9 *	-62.6	-10.6
Closed	5.4	1.6	3.1	-3.2	21.3	-0.5	-8.2	4.0	-9.3	-3.0	-14.2	3.2

Open/closed: Total	28.7	0.0	14.3	-4.4	26.6	3.9	-35.9	-46.2	-21.9	29.9 *	-76.7	-7.4

* indicates 99 % certainty that excess mortality occurred:				NA indicates 'not applicable'								

Table 8.3. 9 : Summary of excess mortality associated with all centres,
derived from CSR data : 1991 - Mar95: All ages

Group	Bristol	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12
1: Fallot type	3.0	-0.1	-1.4	1.6	-0.2	-3.3	-1.6	-0.5	-2.9	3.8	-3.0	0.5
2: Interatrial TGA	-0.9	-0.6	1.0 *	0.5	-1.2	2.8	0.2	0.3	-0.9	1.3	-0.7	-1.2
3: Other TGA	4.1	-1.8	2.2	1.1	-1.2	1.8	-0.8	5.7	0.0	-2.4	-17.1	-2.4
4: TAPVD	3.4	-0.6	-1.3	1.2	-0.2	-2.8	-1.1	-0.4	-1.6	1.4	0.1	0.7
5: AVSD	5.9	-1.7	-1.4	-0.7	2.2	-1.0	-0.7	-6.4	2.0	3.6	-8.8	0.7
6: Closure of ASD	1.2	-1.4	2.7 *	-1.3	0.1	0.6	0.2	-1.2	0.1	-0.8	-2.0	-0.1
7: Closure of VSD	-2.4	0.3	0.6	1.1	-0.5	0.2	-0.1	-0.8	-1.4	-0.1	-0.3	1.6
8: Truncus	0.0	0.7	0.9	0.5	2.6	-1.5	0.0	-2.1	-1.0	0.9	-1.6	-0.6
9: Fontan type	2.6	-2.0	-0.7	1.4	-3.6	-2.7	-0.9	-2.4	2.2	7.9 *	-2.9	-2.4
10: Aortic/pulm valv	-0.3	0.5	4.6	1.0	2.5	-8.1	-0.6	-5.0	1.7	0.1	-6.2	-4.4
11: Mitral valves	-0.9	0.5	0.8	NA	0.9	0.9	-0.9	0.3	0.0	0.0	-3.1	-0.8
12: Closed shunts	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
13: Simple coarct	-1.0	1.2	1.3	-0.7	-0.6	-0.8	2.1	1.8	-1.4	-0.4	-1.5	-0.6

Groups 1-13: Total	14.7	-5.0	9.3	5.9	0.9	-13.8	-4.2	-10.7	-3.1	15.3 *	-46.9	-8.8

Open	24.1	-17.4	9.4	-0.3	5.2	-17.3	-24.0	-9.8	-12.5	33.5	-61.5	-10.1
Closed	-0.7	3.3	0.7	0.2	1.3	3.2	-3.0	-2.9	1.0	3.5	-13.2	-2.8

Open/closed: Total	23.4	-14.1	10.1	-0.1	6.5	-14.0	-27.0	-12.8	-11.5	37.0 *	-74.7	-13.0

* indicates 99 % certainty that excess mortality occurred:				NA indicates 'not applicable'								

Table 8.3. 10 : Summary of excess mortality associated with all centres,
derived from CSR data : 1984 - Mar95: under 1 yr

Group	Bristol	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12
1: Fallot type	1.6	0.5	-0.7	0.9	1.6	0.5	-4.4	-0.6	-3.6	2.5	0.1	-2.6
2: Interatrial TGA	-1.9	0.0	-0.1	0.1	2.6	3.3	0.5	-0.5	-2.4	-0.4	-0.3	0.5
3: Other TGA	1.4	-2.7	10.4	2.1	-2.3	2.8	-5.7	2.2	-0.2	1.4	-25.5	-4.2
4: TAPVD	9.9	-1.4	-4.6	0.6	7.0	-2.2	-3.3	1.0	-3.2	1.5	-3.6	-4.7
5: AVSD	6.5	3.0	-1.1	-1.0	2.2	-7.4	-3.3	1.7	4.1	2.9	-15.5	-4.8
6: Closure of ASD	4.2 *	-0.2	-0.1	-1.5	-0.8	2.8	0.2	-3.6	1.0	0.0	-4.0	-3.3
7: Closure of VSD	-0.7	-1.9	-0.1	-0.8	4.7	-7.1	-5.1	-2.7	-2.9	6.9 *	-1.4	-4.4
8: Truncus	2.1	-0.2	0.5	0.5	4.3	-2.3	-4.8	-1.2	-2.7	2.0	-0.4	-1.4
9: Fontan type	0.6	0.2	NA	0.6	-3.1	NA	-0.3	-0.6	0.6	1.1	-0.5	0.0
10: Aortic/pulm valv	-0.3	0.6	7.6	-0.2	3.8	-3.1	-10.8	-2.4	3.0	-2.6	-4.8	-4.2
11: Mitral valves	-0.4	-0.4	-0.2	NA	-0.3	2.1	-0.6	0.1	0.9	0.2	-2.9	-0.1
12: Closed shunts	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
13: Simple coarct	-0.9	0.4	-0.6	-1.1	-2.0	3.2	1.8	2.8	-2.0	-0.9	-3.3	2.1

Groups 1-13: Total	22.1 *	-2.0	11.0	0.2	17.4	-7.6	-35.8	-3.9	-7.3	14.7	-62.1	-27.0

Open	29.6	-6.9	12.6	-0.8	14.1	-28.6	-51.6	-16.1	-9.4	25.2	-67.6	-28.0
Closed	11.5	0.8	-3.3	-3.2	39.6 *	3.4	-11.4	-4.3	-9.1	-2.1	-28.4	-4.4

Open/closed: Total	41.1	-6.1	9.3	-4.0	53.8 *	-25.2	-63.0	-20.4	-18.6	23.1	-96.0	-32.5

* indicates 99 % certainty that excess mortality occurred:				NA indicates 'not applicable'								

Table 8.3. 11 : Summary of excess mortality associated with all centres,
derived from CSR data : 1984 - Mar95: 1 to 15 years

Group	Bristol	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12
1: Fallot type	9.8	-0.5	0.7	1.9	-0.9	-5.5	-4.1	-14.3	5.5	0.5	-9.3	0.2
2: Interatrial TGA	-0.1	-0.1	0.8	NA	-0.5	0.9	-0.1	-0.8	-0.2	-0.2	1.5	-0.7
3: Other TGA	1.3	0.2	-1.0	-0.2	2.0	0.6	-0.8	-0.6	-0.9	-1.5	-0.3	-1.1
4: TAPVD	0.8	-0.8	-0.3	NA	-0.1	0.2	-0.2	1.4	-0.1	-0.2	0.5	-1.6
5: AVSD	5.9	-1.7	-0.9	-0.7	4.1	0.0	-1.1	-4.6	0.4	1.2	-11.4	1.8
6: Closure of ASD	-0.9	-0.6	5.9 *	-0.6	-1.7	1.5	-0.9	0.2	-1.0	-0.9	-2.0	-0.1
7: Closure of VSD	-1.4	-0.9	1.7	1.9	-0.8	-1.3	0.0	-1.6	-0.8	-0.4	0.5	0.5
8: Truncus	-0.8	NA	0.9	0.7	NA	1.0	0.7	-1.1	-0.3	0.0	0.2	-1.0
9: Fontan type	6.8	-2.0	0.0	0.6	-0.7	-0.7	-1.8	-6.5	0.7	9.2 *	-9.9	-5.2
10: Aortic/pulm valv	-4.8	-1.3	3.6	1.4	5.7	-1.4	-6.1	8.0	-0.8	0.4	-2.7	-5.9
11: Mitral valves	-0.3	0.5	1.8	-0.2	1.1	-0.4	0.9	-2.1	-0.8	0.5	0.4	-3.3
12: Closed shunts	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
13: Simple coarct	-0.5	0.7	0.7	-0.2	-0.2	-0.2	0.6	-0.3	-0.3	-0.1	-0.3	-0.7

Groups 1-13: Total	15.9	-6.3	13.8	4.6	8.0	-5.3	-12.9	-22.3	1.2	8.5	-32.9	-17.0

Open	20.4	-26.2	8.6	-2.1	2.6	9.8	-37.5	-27.2	-11.8	60.4 *	-43.3	-28.3
Closed	2.8	1.7	-0.7	-1.8	3.0	-0.9	-3.1	2.1	1.9	-0.5	-8.7	3.4

Open/closed: Total	23.2	-24.5	7.9	-3.9	5.6	9.0	-40.6	-25.0	-9.9	59.9 *	-52.0	-24.9

* indicates 99 % certainty that excess mortality occurred:				NA indicates 'not applicable'								

Table 8.3. 12 : Summary of excess mortality associated with all centres,
derived from CSR data : 1984 - Mar95: All ages

Group	Bristol	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12
1: Fallot type	11.4	0.1	-0.1	2.8	0.7	-5.1	-8.5	-14.9	2.0	3.1	-9.2	-2.3
2: Interatrial TGA	-2.0	-0.2	0.8	0.1	2.0	4.1	0.4	-1.3	-2.6	-0.6	1.2	-0.2
3: Other TGA	2.6	-2.5	9.4	1.9	-0.3	3.4	-6.5	1.6	-1.2	-0.1	-25.8	-5.3
4: TAPVD	10.7 *	-2.1	-4.9	0.6	6.9	-2.0	-3.5	2.5	-3.3	1.3	-3.1	-6.3
5: AVSD	12.4 *	1.3	-2.0	-1.7	6.2	-7.3	-4.4	-2.9	4.5	4.1	-27.0	-2.9
6: Closure of ASD	3.3	-0.8	5.8 *	-2.2	-2.5	4.3	-0.7	-3.4	0.1	-0.9	-5.9	-3.4
7: Closure of VSD	-2.1	-2.8	1.7	1.1	3.9	-8.4	-5.2	-4.3	-3.7	6.5	-0.9	-3.9
8: Truncus	1.3	-0.2	1.5	1.2	4.3	-1.3	-4.0	-2.4	-3.0	2.0	-0.2	-2.4
9: Fontan type	7.5	-1.8	0.0	1.2	-3.8	-0.7	-2.1	-7.0	1.3	10.3 *	-10.4	-5.2
10: Aortic/pulm valv	-5.1	-0.7	11.1 *	1.2	9.5	-4.5	-17.0	5.5	2.2	-2.2	-7.6	-10.1
11: Mitral valves	-0.7	0.1	1.6	-0.2	0.7	1.6	0.3	-2.1	0.1	0.7	-2.5	-3.5
12: Closed shunts	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
13: Simple coarct	-1.4	1.2	0.1	-1.3	-2.2	3.0	2.4	2.6	-2.3	-1.0	-3.6	1.5

Groups 1-13: Total	38.0 *	-8.3	24.9	4.8	25.5	-12.9	-48.7	-26.2	-6.1	23.1	-94.9	-44.0

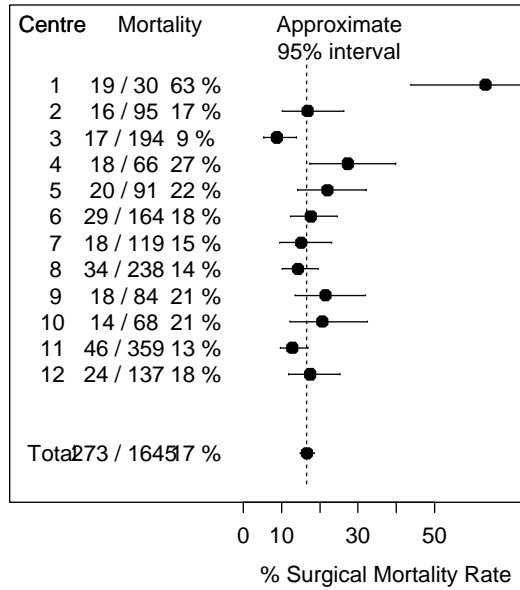
Open	50.0	-33.0	21.2	-2.8	16.7	-18.8	-89.1	-43.3	-21.3	85.7 *	-110.9	-56.3
Closed	14.3	2.5	-4.0	-5.1	42.6 *	2.5	-14.5	-2.2	-7.2	-2.6	-37.1	-1.0

Open/closed: Total	64.3	-30.5	17.2	-7.9	59.4	-16.2	-103.6	-45.5	-28.5	83.0 *	-148.0	-57.3

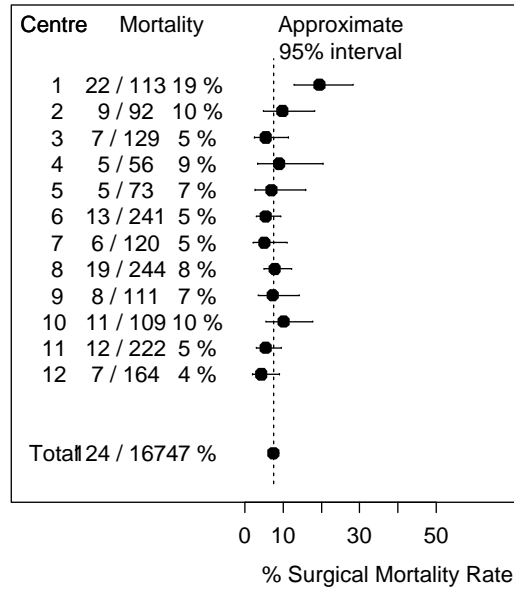
* indicates 99 % certainty that excess mortality occurred:				NA indicates 'not applicable'								

Figure 8.2.1 : Mortality in all centres derived from HES data 88: Open 1991 - Mar95

under 90 days



90 days to 1 yr



1 to 15 years

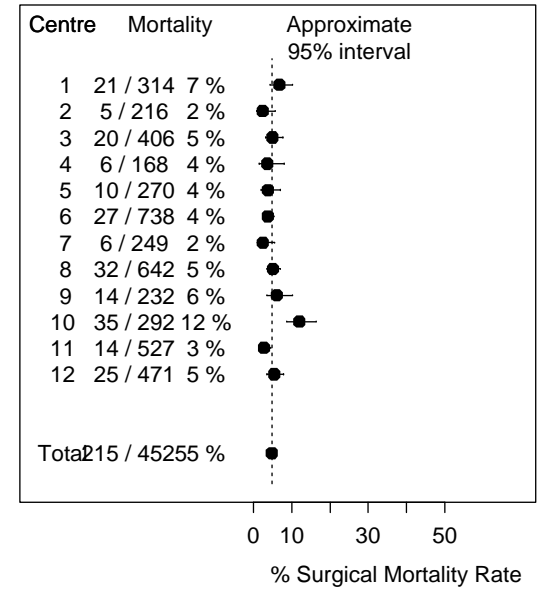
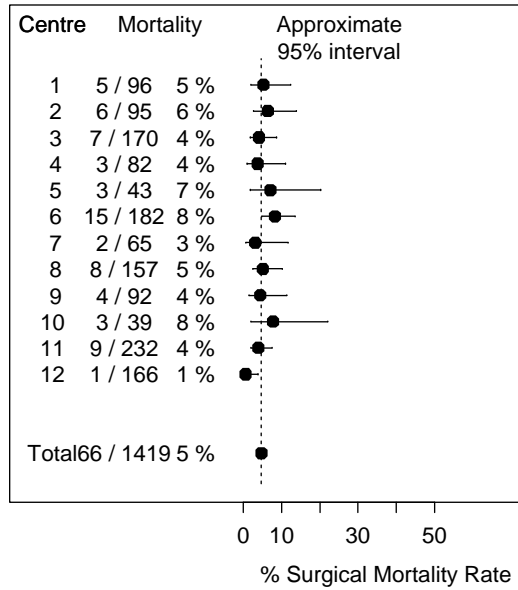
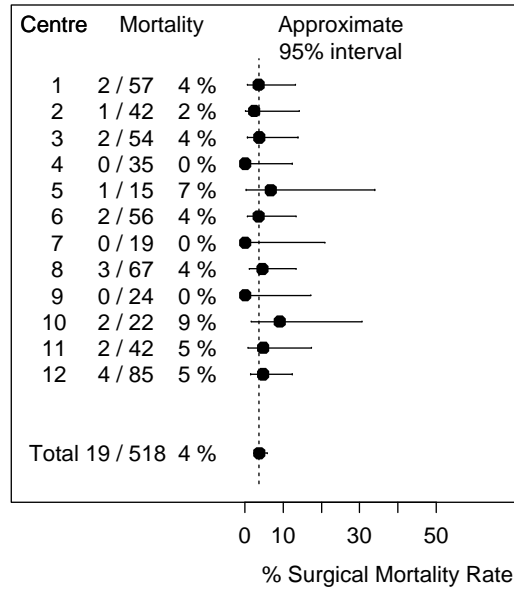


Figure 8.2.2 : Mortality in all centres derived from HES data 99: Closed 1991 - Mar95

under 90 days



90 days to 1 yr



1 to 15 years

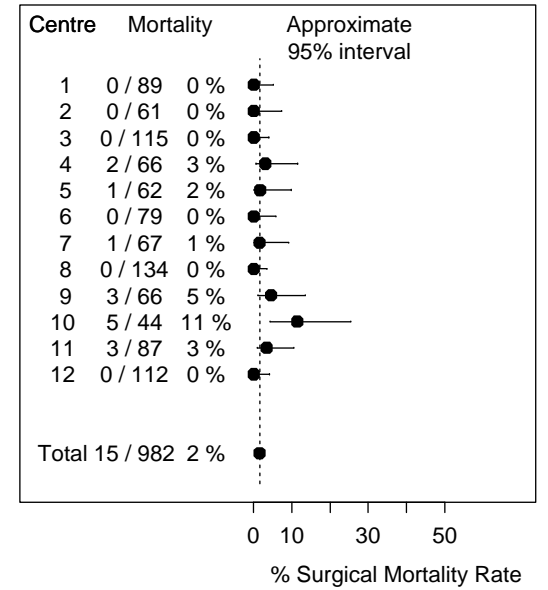
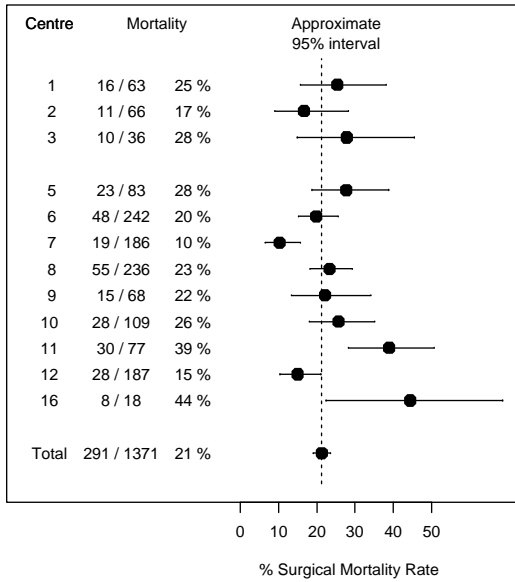
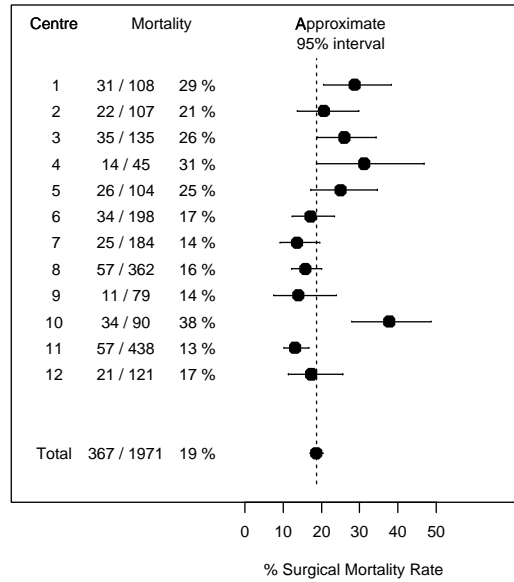


Figure 8.3.1 : Mortality in all centres derived from CSR data 88: Open

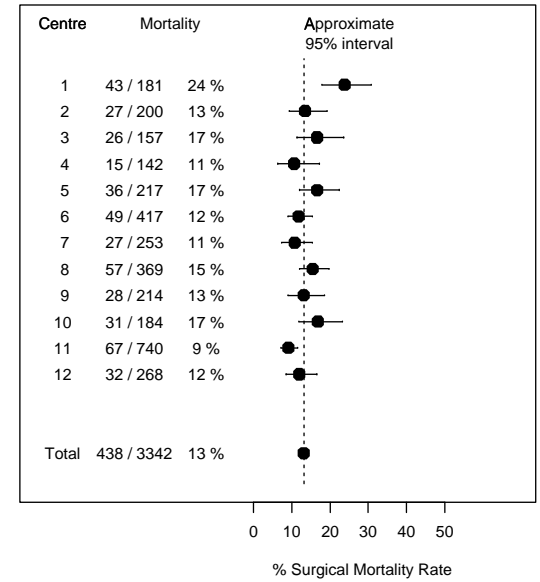
1984 - 1987 under 1 yr



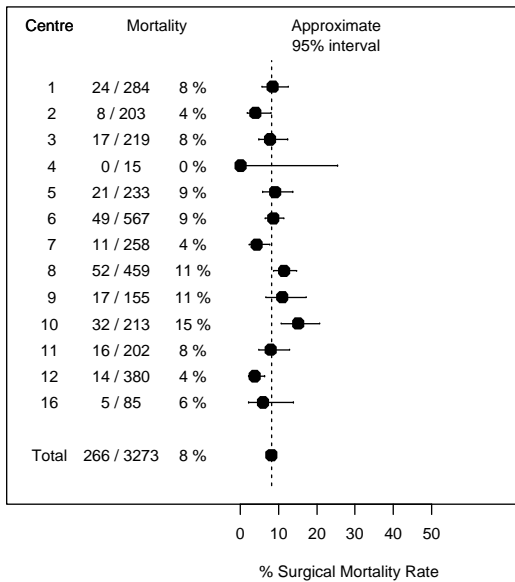
1988 - 1990 under 1 yr



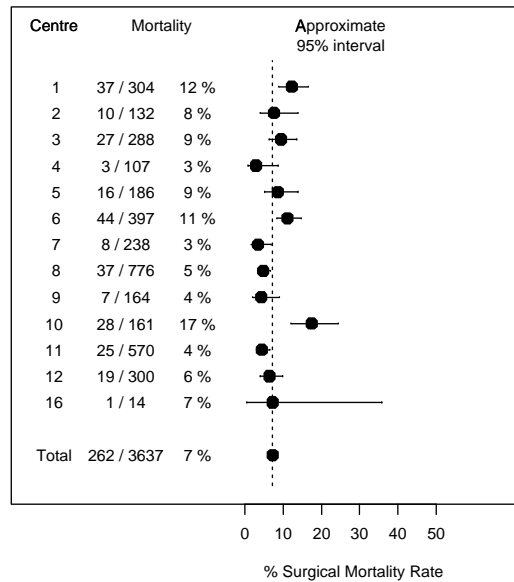
1991 - Mar95 under 1 yr



1984 - 1987 1 to 15 years



1988 - 1990 1 to 15 years



1991 - Mar95 1 to 15 years

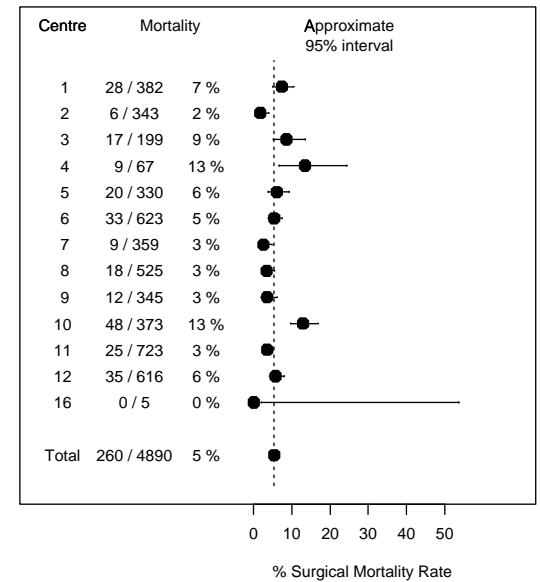
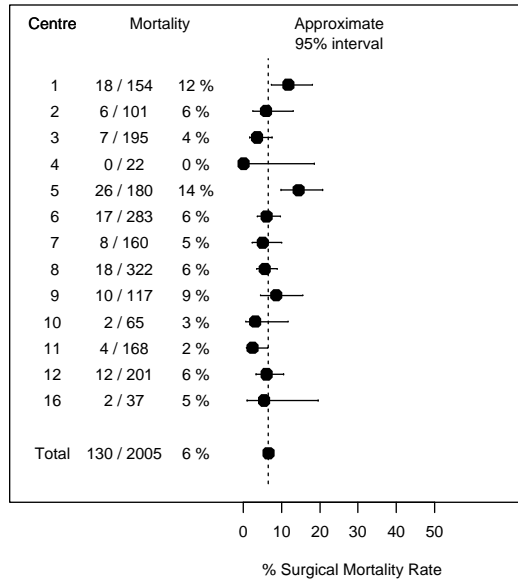
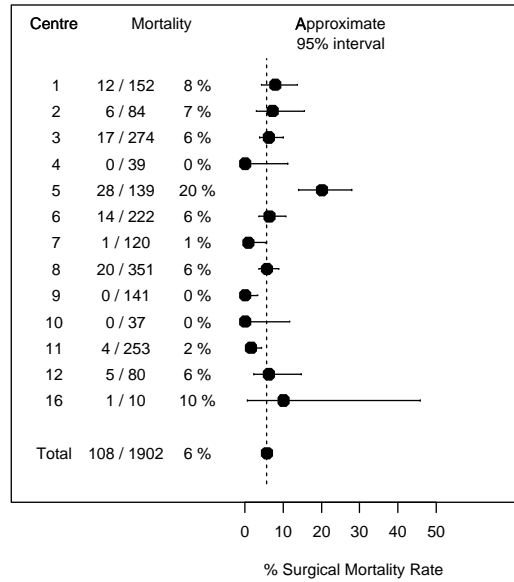


Figure 8.3.2 : Mortality in all centres derived from CSR data 99: Closed

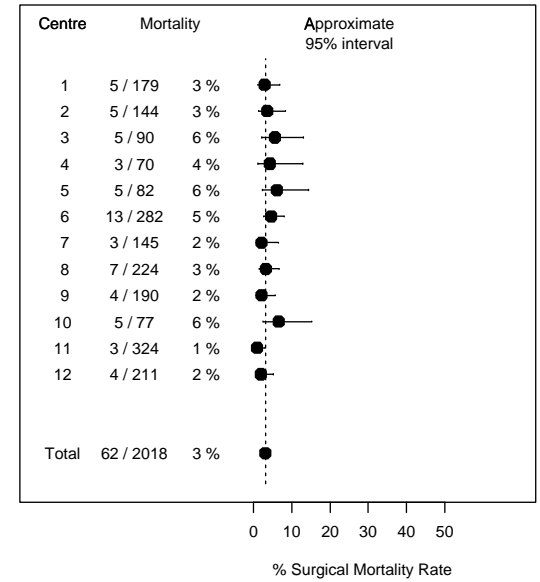
1984 - 1987 under 1 yr



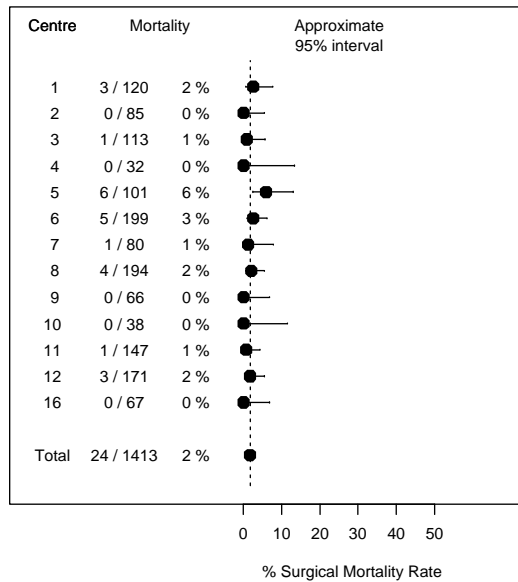
1988 - 1990 under 1 yr



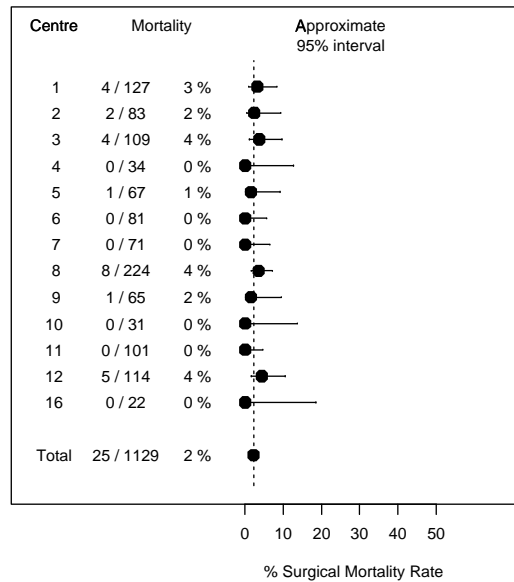
1991 - Mar95 under 1 yr



1984 - 1987 1 to 15 years



1988 - 1990 1 to 15 years



1991 - Mar95 1 to 15 years

