



# The Scottish Coronary Revascularisation Register

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## Outcomes Update 1997 - 2007

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## **Contributing Sites**

ERI	Royal Infirmary, Edinburgh
AYR	Ayr Hospital
DGRI	Dumfries & Galloway Royal Infirmary
GRI	Glasgow Royal Infirmary
GJNH	Golden Jubilee National Hospital
LCCL	Lanarkshire Cardiac Catheter Laboratory
NINE	Ninewells Hospital
RAI	Raigmore Hospital
RIA	Aberdeen Royal Infirmary
WGH	Western General, Edinburgh
WIG	Western Infirmary, Glasgow

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## Introduction

The last two published annual reports (covering 2006/2007 and 2007/2008) did not include the tables of subsequent events that were routinely included in earlier annual reports. This was due to technical problems in obtaining linked data from the Information and Statistics Division (ISD) in Edinburgh. These have now been resolved. Therefore, this short, ad hoc report is intended to fill the deficits of the previous two reports by providing updated outcomes tables.

As with previous record linkages, the cases held in the Scottish Coronary Revascularisation Register were linked to hospital admission data (Scottish Morbidity Record SMR) and death certificate data. ISD provided follow-up information until the end of December 2007. This report is based on all procedures undertaken up to the end of June 2007. Therefore, the outcomes are based on a minimum follow-up of 6 months (maximum 10.8 years). All of the outcome data reported are based on the time to the first relevant event. For example, in people who are readmitted on several occasions, only the first relevant readmission is analysed. Consistent with previous reports, the outcomes reported are:

- All-cause death
- Fatal or non-fatal myocardial infarction
- Fatal or non-fatal stroke
- Subsequent PCI (not necessarily target vessel)
- Subsequent CABG
- Subsequent coronary revascularisation (PCI or CABG)

These are reported for individual hospitals and for Scotland as a whole, and by patient sub-group (based on clinical presentation, disease severity and procedure urgency) as well as for patients as a whole. 95% confidence intervals are also reported.

Since 2007 interventional cardiology and cardiac surgery activity in Scotland has been consolidated onto fewer sites. Coronary angiography was discontinued at Inverclyde Royal Hospital in July 2006. The Western General Hospital in Edinburgh stopped doing angiography and percutaneous coronary intervention in June 2007. In the Spring of 2008 interventional cardiology and cardiac surgery activity at both Glasgow Royal Infirmary and the Western Infirmary Glasgow was merged with that at the Golden Jubilee National Hospital to form a new unit, called the West of Scotland Heart and Lung Centre. Therefore, the current layout is relevant to the period covered in this report but hospital breakdowns will be amended in future reports to reflect the service reorganisations.

Jill Pell

on behalf of the Scottish Coronary Revascularisation Register Steering Groups



## Coronary Angiography

**Table 1. Crude outcomes at one year – Lower volume sites**

	AYR	DGRI	GJNH	IRH	NINE	RAI	Total
<b>All</b>	n=3606	n=901	n=3947	n=2055	n=5026	n=1631	n=17166
PCI	19.9 (18.5-21.3)	19.8 (17.3-22.3)	34.3 (32.7-35.9)	15.4 (13.8-17.0)	22.8 (21.6-24.0)	17.7 (15.7-19.7)	23.3 (22.7-23.9)
CABG	20.1 (18.7-21.5)	17.8 (15.3-20.3)	13.3 (12.3-14.3)	17.7 (16.1-19.3)	16.5 (15.5-17.5)	23.5 (21.3-25.7)	17.4 (16.8-18.0)
revascularisation	39.5 (37.9-41.1)	37.1 (34.0-40.2)	47.0 (45.4-48.6)	32.8 (30.8-34.8)	38.8 (37.4-40.2)	40.5 (38.1-42.9)	40.2 (39.4-41.0)
<b>Emergency</b>	n=2	n=0	n=3	n=1	n=21	n=1	n=28
PCI	50.0 (-19.4-119.4)		100.0 (100.0-100.0)	no events	55.8 (33.5-78.1)	no events	56.0 (37.0-75.0)
CABG	no events		50.0 (-19.4-119.4)	no events	10.0 (-3.1-23.1)	no events	11.4 (-0.8-23.6)
revascularisation	50.0 (-19.4-119.4)		100.0(100.0-100.0)	no events	64.6 (43.6-85.6)	no events	62.5 (44.3-80.7)
<b>Urgent</b>	n=53	n=163	n=9	n=319	n=1506	n=19	n=2069
PCI	11.8 (3.0-20.6)	34.3 (26.9-41.7)	66.7 (35.9-97.5)	23.8 (19.1-28.5)	32.3 (29.9-34.7)	15.8 (-0.7-32.3)	30.6 (28.6-32.6)
CABG	9.8 (1.6- 18.0)	16.1 (10.2-22.0)	0.0 (0.0- 0.0)	22.8 (18.1-27.5)	18.3 (16.3-20.3)	10.5 (-3.2-24.2)	18.8 (17.0-20.6)
revascularisation	37.6 (24.3-50.9)	49.7 (41.9-57.5)	66.7 (35.9-97.5)	45.4 (39.9-50.9)	49.9 (47.4-52.4)	26.3 (6.5-46.1)	48.8 (46.6-51.0)
<b>Elective</b>	n=3549	n=738	n=3935	n=1734	n=3499	n=1611	n=15066
PCI	20.0 (18.6-21.4)	16.6 (13.9-19.3)	34.2 (32.6-35.8)	13.9 (12.3-15.5)	18.6 (17.2-20.0)	17.7 (15.7-19.7)	22.3 (21.7-22.9)
CABG	20.0 (18.6-21.4)	18.1 (15.4-20.8)	13.3 (12.3-14.3)	16.8 (15.0-18.6)	15.8 (14.6-17.0)	23.7 (21.5-25.9)	17.2 (16.6-17.8)
revascularisation	39.5 (37.9-41.1)	34.3 (30.8-37.8)	46.9 (45.3-48.5)	30.5 (28.3-32.7)	33.9 (32.3-35.5)	40.7 (38.3-43.1)	38.9 (38.1-39.7)
<b>Unstable angina</b>	n=282	n=236	n=191	n=248	n=1909	n=43	n=2909
PCI	28.6 (23.3-33.9)	39.2 (32.9-45.5)	46.6 (39.5-53.7)	29.5 (23.6-35.4)	34.9 (32.7-37.1)	23.4 (10.7-36.1)	34.8 (33.0-36.6)
CABG	26.0 (20.9-31.1)	18.3 (13.2-23.4)	12.9 (8.0-17.8)	26.1 (20.6-31.6)	21.3 (19.5-23.1)	28.4 (14.9-41.9)	21.5 (19.9-23.1)
revascularisation	54.2 (48.3-60.1)	56.8 (50.3-63.3)	58.0 (50.9-65.1)	54.9 (48.6-61.2)	55.4 (53.2-57.6)	51.9 (36.8-67.0)	55.5 (53.7-57.3)
<b>Stable angina</b>	n=2332	n=394	n=2532	n=1229	n=1606	n=966	n=9059
PCI	25.3 (23.5-27.1)	15.7 (12.2-19.2)	47.1 (45.1-49.1)	18.7 (16.5-20.9)	23.2 (21.0-25.4)	22.5 (19.8-25.2)	29.4 (28.4-30.4)
CABG	23.6 (21.8-25.4)	19.7 (15.8-23.6)	16.1 (14.7-17.5)	21.2 (18.8-23.6)	18.2 (16.2-20.2)	29.0 (26.1-31.9)	20.7 (19.9-21.5)
revascularisation	48.3 (46.3-50.3)	35.1 (30.4-39.8)	62.5 (60.5-64.5)	39.5 (36.8-42.2)	40.9 (38.5-43.3)	50.4 (47.3-53.5)	49.4 (48.4-50.4)

	AYR	DGRI	GJNH	IRH	NINE	RAI	Total
<b>Diabetics</b>	n=1529	n=164	n=648	n=697	n=2393	n=288	n=5719
PCI	17.8 (15.8-19.8)	21.1 (14.8-27.4)	28.6 (25.1-32.1)	13.6 (11.1-16.1)	20.9 (19.3-22.5)	19.5 (14.8-24.2)	20.0 (19.0-21.0)
CABG	24.4 (22.2-26.6)	16.9 (11.0-22.8)	16.6 (13.7-19.5)	21.2 (18.1-24.3)	18.4 (16.8-20.0)	28.4 (23.1-33.7)	20.6 (19.6-21.6)
revascularisation	41.7 (39.2-44.2)	37.2 (29.8-44.6)	44.2 (40.3-48.1)	34.6 (31.1-38.1)	38.5 (36.5-40.5)	46.1 (40.2-52.0)	39.9 (38.5-41.3)
<b>LMS</b>	n=225	n=66	n=213	n=99	n=202	n=167	n=972
PCI	9.1 (5.4-12.8)	6.6 (0.3-2.9)	13.8 (9.1-18.5)	2.1 (-0.8-5.0)	9.8 (5.7-13.9)	7.5 (3.4-11.6)	9.1 (7.3-10.9)
CABG	67.2 (60.9-73.5)	65.1 (53.3-76.9)	62.4 (55.7-69.1)	75.3 (66.7-83.9)	62.4 (55.5-69.3)	69.3 (62.0-76.6)	66.1 (63.0-69.2)
revascularisation	75.8 (70.1-81.5)	71.5 (60.3-82.7)	74.3 (68.4-80.2)	76.4 (67.8-85.0)	71.9 (65.4-78.4)	76.4 (69.7-83.1)	74.5 (71.8-77.2)
<b>IVD</b>	n=955	n=243	n=1142	n=421	n=1023	n=413	n=4197
PCI	39.2 (36.1-42.3)	40.2 (33.9-46.5)	65.8 (63.1-68.5)	43.5 (38.8-48.2)	45.8 (42.7-48.9)	38.5 (33.8-43.2)	48.5 (46.9-50.1)
CABG	12.3 (10.1-14.5)	12.0 (7.9-16.1)	6.0 (4.6-7.4)	11.3 (8.4-14.2)	11.8 (9.8-13.8)	21.6 (17.7-25.5)	11.3 (10.3-12.3)
revascularisation	50.8 (47.7-53.9)	51.2 (44.9-57.5)	71.0 (68.5-73.5)	53.6 (48.9-58.3)	56.8 (53.7-59.9)	58.7 (54.0-63.4)	58.9 (57.3-60.5)
<b>2VD no PLAD</b>	n=387	n=97	n=407	n=151	n=423	n=180	n=1645
PCI	35.1 (30.4-39.8)	21.4 (13.2-29.6)	59.8 (55.1-64.5)	31.8 (24.4-39.2)	34.4 (29.9-38.9)	27.5 (21.0-34.0)	39.1 (36.7-41.5)
CABG	24.9 (20.6-29.2)	24.6 (15.8-33.4)	13.2 (9.9-16.5)	28.4 (21.1-35.7)	22.0 (18.1-25.9)	35.7 (28.6-42.8)	22.7 (20.7-24.7)
revascularisation	58.7 (53.8-63.6)	46.0 (35.8-56.2)	72.2 (67.9-76.5)	60.1 (52.3-67.9)	55.5 (50.8-60.2)	61.7 (54.4-69.0)	60.9 (58.5-63.3)
<b>2VD + PLAD</b>	n=249	n=63	n=271	n=104	n=188	n=82	n=957
PCI	25.5 (20.0-31.0)	20.9 (10.7-31.1)	46.3 (40.4-52.2)	22.5 (14.5-30.5)	33.0 (26.1-39.9)	25.0 (15.6-34.4)	32.2 (29.3-35.1)
CABG	34.6 (28.7-40.5)	29.9 (18.3-41.5)	26.7 (21.4-32.0)	47.6 (38.0-57.2)	38.6 (31.5-45.7)	49.5 (38.3-60.7)	35.5 (32.4-38.6)
revascularisation	60.2 (54.1-66.3)	50.0 (37.7-62.3)	71.8 (66.3-77.3)	69.9 (61.1-78.7)	70.5 (63.8-77.2)	73.6 (63.8-83.4)	67.0 (64.1-69.9)
<b>3VD</b>	n=451	n=73	n=421	n=196	n=288	n=130	n=1559
PCI	11.9 (9.0-14.8)	22.6 (12.8-32.4)	30.7 (26.2-35.2)	9.0 (4.9-13.1)	18.2 (13.7-22.7)	15.5 (9.2-21.8)	18.6 (16.6-20.6)
CABG	51.4 (46.7-56.1)	40.0 (28.4-51.6)	41.1 (36.4-45.8)	58.1 (51.0-65.2)	35.9 (30.2-41.6)	49.4 (40.8-58.0)	45.9 (43.4-48.4)
revascularisation	62.7 (58.2-67.2)	61.2 (49.8-72.6)	70.5 (66.2-74.8)	67.1 (60.4-73.8)	54.0 (48.1-59.9)	64.0 (55.6-72.4)	63.7 (61.3-66.1)
<b>Multiv (xLMS)</b>	n=1087	n=233	n=1099	n=451	n=899	n=392	n=4161
PCI	23.3 (20.8-25.8)	21.6 (16.3-26.9)	45.3 (42.4-48.2)	19.8 (16.1-23.5)	29.0 (26.1-31.9)	23.0 (18.9-27.1)	29.8 (28.4-31.2)
CABG	38.1 (35.2-41.0)	30.8 (24.7-36.9)	27.1 (24.4-29.8)	45.7 (41.0-50.4)	29.9 (26.8-33.0)	43.1 (38.2-48.0)	34.3 (32.9-35.7)
revascularisation	60.7 (57.8-63.6)	51.8 (45.3-58.3)	71.4 (68.7-74.1)	65.4 (60.9-69.9)	58.0 (54.7-61.3)	64.9 (60.0-69.8)	63.4 (61.8-65.0)

**Table 2. Crude outcomes at one year – Higher volume sites**

	ERI	GRI	LCCL	RIA	WGH	WIG	Total
<b>All</b>	n=17806	n=14668	n=15751	n=8675	n=16785	n=20369	n=94054
PCI	48.2 (47.4-49.0)	39.3 (38.5-40.1)	38.0 (37.2-38.8)	50.3 (49.3-51.3)	48.6 (47.8-49.4)	40.6 (40.0-41.2)	43.7 (43.3-44.1)
CABG	13.6 (13.0-14.2)	16.8 (16.2-17.4)	16.2 (15.6-16.8)	11.0 (10.4-11.6)	13.2 (12.6-13.8)	13.7 (13.3-14.1)	14.2 (14.0-14.4)
revascularisation	59.8 (59.0-60.6)	54.6 (53.8-55.4)	52.4 (51.6-53.2)	58.7 (57.7-59.7)	60.4 (59.6-61.2)	52.8 (52.0-53.6)	56.3 (55.9-56.7)
<b>Emergency</b>	n=1295	n=545	n=1031	n=585	n=670	n=1793	n=5919
PCI	85.4 (83.4-87.4)	75.5 (72.0-79.0)	81.3 (78.9-83.7)	91.7 (89.5-93.9)	88.2 (85.7-90.7)	68.2 (66.0-70.4)	79.5 (78.5-80.5)
CABG	9.6 (7.8-11.4)	12.7 (9.8-15.6)	8.8 (7.0-10.6)	7.5 (5.3-9.7)	5.6 (3.8-7.4)	12.6 (11.0-14.2)	10.1 (9.3-10.9)
revascularisation	90.9 (89.3-92.5)	84.0 (80.9-87.1)	86.8 (84.6-89.0)	94.0 (92.0-96.0)	91.1 (88.9-93.3)	77.8 (75.8-79.8)	86.0 (85.0-87.0)
<b>Urgent</b>	n=6712	n=4229	n=3870	n=3470	n=4763	n=4496	n=27540
PCI	55.4 (54.2-56.6)	45.1 (43.5-46.7)	51.2 (49.6-52.8)	58.7 (57.1-60.3)	58.7 (57.1-60.3)	52.2 (50.8-53.6)	54.4 (53.8-55.0)
CABG	12.9 (12.1-13.7)	18.1 (16.9-19.3)	17.3 (16.1-18.5)	10.0 (9.0-11.0)	12.7 (11.7-13.7)	14.1 (13.1-15.1)	14.1 (13.7-14.5)
revascularisation	66.3 (65.1-67.5)	61.8 (60.2-63.4)	66.1 (64.5-67.7)	66.2 (64.6-67.8)	73.5 (72.3-74.7)	64.6 (63.2-66.0)	66.5 (65.9-67.1)
<b>Elective</b>	n=9793	n=9891	n=10848	n=4620	n=11351	n=14080	n=60583
PCI	38.3 (37.3-39.3)	34.7 (33.7-35.7)	29.1 (28.3-29.9)	38.7 (37.3-40.1)	40.4 (39.4-41.4)	33.3 (32.5-34.1)	35.3 (34.9-35.7)
CABG	14.5 (13.7-15.3)	16.4 (15.6-17.2)	16.4 (15.6-17.2)	12.2 (11.2-13.2)	13.7 (13.1-14.3)	13.6 (13.0-14.2)	14.6 (14.4-14.8)
revascularisation	51.2 (50.2-52.2)	49.8 (48.8-50.8)	44.2 (43.2-45.2)	48.4 (47.0-49.8)	53.0 (52.0-54.0)	45.9 (45.1-46.7)	48.6 (48.2-49.0)
<b>Unstable angina</b>	n=5508	n=4296	n=3263	n=3359	n=4227	n=4781	n=25434
PCI	65.6 (64.4-66.8)	51.1 (49.5-52.7)	61.1 (59.3-62.9)	63.9 (62.3-65.5)	69.6 (68.2-71.0)	57.9 (56.5-59.3)	61.5 (60.9-62.1)
CABG	61.5 (60.9-62.1)	20.1 (18.9-21.3)	16.7 (15.3-18.1)	11.6 (10.4-12.8)	12.7 (11.7-13.7)	14.6 (13.6-15.6)	14.9 (14.5-15.3)
revascularisation	76.7 (75.5-77.9)	69.2 (67.8-70.6)	74.7 (73.1-76.3)	72.6 (71.0-74.2)	80.0 (78.8-81.2)	70.2 (68.8-71.6)	74.0 (73.4-74.6)
<b>Stable angina</b>	n=6826	n=6654	n=6574	n=3093	n=9319	n=8809	n=41275
PCI	49.7 (48.5-50.9)	42.1 (40.9-43.3)	39.4 (38.2-40.6)	49.7 (47.9-51.5)	49.7 (47.9-51.5)	41.2 (40.2-42.2)	44.3 (43.9-44.7)
CABG	16.7 (15.7-17.7)	17.6 (16.6-18.6)	19.0 (18.0-20.0)	13.1 (11.9-14.3)	13.8 (13.0-14.6)	14.6 (13.8-15.4)	15.8 (15.4-16.2)
revascularisation	64.4 (63.2-65.6)	58.3 (57.1-59.5)	56.7 (55.5-57.9)	59.5 (57.7-61.3)	59.3 (58.3-60.3)	54.7 (53.7-55.7)	58.6 (58.2-59.0)

	ERI	GRI	LCCL	RIA	WGH	WIG	Total
<b>Diabetics</b>	n=4024	n=4988	n=3105	n=1312	n=7796	n=10624	n=31849
PCI	44.3 (42.7-45.9)	22.9 (21.7-24.1)	31.1 (29.5-32.7)	44.9 (42.2-47.6)	33.6 (32.6-34.6)	24.9 (24.1-25.7)	30.6 (30.0-31.2)
CABG	15.7 (14.5-16.9)	22.9 (21.7-24.1)	19.3 (17.9-20.7)	13.7 (11.7-15.7)	17.2 (16.4-18.0)	17.1 (16.3-17.9)	17.9 (17.5-18.3)
revascularisation	57.3 (55.7-58.9)	44.9 (43.5-46.3)	49.0 (47.2-50.8)	55.7 (53.0-58.4)	49.8 (48.6-51.0)	40.9 (39.9-41.9)	47.2 (46.6-47.8)
<b>LMS</b>	n=1098	n=808	n=1024	n=477	n=987	n=1109	n=5503
PCI	26.8 (24.1-29.5)	15.8 (13.3-18.3)	20.7 (18.2-23.2)	24.7 (20.8-28.6)	35.5 (32.6-38.4)	30.0 (27.3-32.7)	26.1 (24.9-27.3)
CABG	52.6 (49.5-55.7)	60.3 (56.8-63.8)	55.1 (52.0-58.2)	44.8 (40.3-49.3)	44.4 (41.3-47.5)	51.7 (48.6-54.8)	51.8 (50.4-53.2)
revascularisation	75.9 (73.4-78.4)	73.9 (70.8-77.0)	72.6 (69.9-75.3)	67.5 (63.2-71.8)	77.2 (74.5-79.9)	78.6 (76.1-81.1)	75.0 (73.8-76.2)
<b>IVD</b>	n=5313	n=4516	n=4261	n=3043	n=4614	n=5482	n=27229
PCI	74.3 (73.1-75.5)	67.4 (66.0-68.8)	65.8 (64.4-67.2)	77.2 (75.6-78.8)	75.0 (73.8-76.2)	67.6 (66.4-68.8)	70.9 (70.3-71.5)
CABG	6.6 (6.0-7.2)	10.1 (9.1-11.1)	7.6 (6.8-8.4)	6.4 (5.6-7.2)	5.6 (5.0-6.2)	6.3 (5.7-6.9)	7.1 (6.7-7.5)
revascularisation	79.1 (77.9-80.3)	75.6 (74.4-76.8)	71.6 (70.2-73.0)	80.4 (79.0-81.8)	79.4 (78.2-80.6)	72.6 (71.4-73.8)	76.2 (75.6-76.8)
<b>2VD no PLAD</b>	n=2063	n=1735	n=1921	n=1175	n=1988	n=1978	n=10860
PCI	66.1 (64.1-68.1)	59.9 (57.5-62.3)	58.4 (56.2-60.6)	73.3 (70.8-75.8)	72.4 (70.4-74.4)	61.9 (59.7-64.1)	64.9 (63.9-65.9)
CABG	13.9 (12.3-15.5)	18.5 (16.7-20.3)	16.9 (15.1-18.7)	13.0 (11.0-15.0)	11.1 (9.7-12.5)	13.8 (12.2-15.4)	14.5 (13.9-15.1)
revascularisation	76.8 (75.0-78.6)	76.1 (74.1-78.1)	72.0 (70.0-74.0)	81.1 (78.9-83.3)	81.2 (79.4-83.0)	73.9 (71.9-75.9)	76.6 (75.8-77.4)
<b>2VD + PLAD</b>	n=1224	n=999	n=1128	n=648	n=989	n=1453	n=6441
PCI	61.0 (58.3-63.7)	45.3 (42.2-48.4)	54.4 (51.5-57.3)	60.6 (56.9-64.3)	64.3 (61.4-67.2)	61.5 (59.0-64.0)	58.0 (56.8-59.2)
CABG	21.2 (18.8-23.6)	32.6 (29.7-35.5)	24.8 (22.3-27.3)	17.1 (14.2-20.0)	21.0 (18.5-23.5)	20.2 (18.0-22.4)	22.9 (21.9-23.9)
revascularisation	78.9 (76.5-81.3)	75.7 (73.0-78.4)	76.3 (73.8-78.8)	73.5 (70.2-76.8)	83.1 (80.7-85.5)	79.0 (76.8-81.2)	78.1 (77.1-79.1)
<b>3VD</b>	n=2115	n=1727	n=2332	n=985	n=1937	n=2209	n=11305
PCI	42.7 (40.5-44.9)	42.7 (40.5-44.9)	34.4 (32.4-36.4)	47.4 (44.3-50.5)	58.3 (56.1-60.5)	46.6 (44.4-48.8)	43.3 (42.3-44.3)
CABG	32.1 (30.1-34.1)	39.6 (37.2-42.0)	36.9 (34.9-38.9)	24.8 (22.1-27.5)	25.4 (23.4-27.4)	29.4 (27.4-31.4)	31.9 (31.1-32.7)
revascularisation	31.9 (31.1-32.7)	70.1 (67.9-72.3)	68.2 (66.2-70.2)	68.6 (65.7-71.5)	81.0 (79.2-82.8)	73.5 (71.5-75.5)	72.6 (71.8-73.4)
<b>Multiv (xLMS)</b>	n=5402	n=4461	n=5381	n=2808	n=4914	n=5640	n=28606
PCI	55.8 (54.4-57.2)	46.2 (44.8-47.6)	47.2 (45.8-48.6)	61.3 (59.5-63.1)	65.2 (63.8-66.6)	55.8 (54.4-57.2)	54.9 (54.3-55.5)
CABG	22.6 (21.4-23.8)	29.7 (28.3-31.1)	27.1 (25.9-28.3)	18.0 (16.6-19.4)	18.6 (17.4-19.8)	21.5 (20.3-22.7)	23.2 (22.6-23.8)
revascularisation	75.5 (74.3-76.7)	73.7 (72.3-75.1)	71.3 (70.1-72.5)	74.9 (73.3-76.5)	81.5 (80.3-82.7)	75.0 (73.8-76.2)	75.3 (74.7-75.9)

## Percutaneous coronary intervention

**Table 3. Elective, chronic stable angina, no previous surgery.**

Maximum follow up at GJNH was 1699 days

	ERI	GJNH	GRI	LCCL	RIA	WGH	WIG	Total
	n=2873	n=957	n=2426	n=2062	n=1429	n=2575	n=2822	n=15144
	% (95% CI)	% (95% CI)	% (95% CI)	% (95% CI)	% (95% CI)	% (95% CI)	% (95% CI)	% (95% CI)
<b>Dead</b>								
30 days	0.3 (0.1-0.5)	no event	0.2 (0.0-0.4)	0.6 (0.2-1.0)	0.1 (-0.1-0.3)	0.2 (0.0-0.4)	0.4 (0.2-0.6)	0.3 (0.3-0.3)
1 year	1.6 (1.2-2.0)	1.8 (1.0-2.6)	1.4 (1.0-1.8)	2.5 (1.9-3.1)	1.2 (0.6-1.8)	1.6 (1.2-2.0)	1.7 (1.3-2.1)	1.7 (1.5-1.9)
5 year	8.4 (7.0-9.8)		7.2 (6.0-8.4)	9.7 (7.9-11.5)	7.5 (5.7-9.3)	7.2 (6.0-8.4)	8.0 (6.8-9.2)	8.0 (7.4-8.6)
9 years	14.7 (12.0-17.4)		16.4 (14.2-18.6)	17.9 (14.2-21.6)	13.8 (10.5-17.1)	16.1 (13.7-18.5)	16.8 (13.9-19.7)	16.3 (15.1-17.5)
<b>Fatal or non-fatal AMI</b>								
30 days	0.4 (0.2-0.6)	0.4 (0.0-0.8)	0.4 (0.2-0.6)	1.2 (0.8-1.6)	0.4 (0.0-0.8)	0.5 (0.3-0.7)	0.6 (0.4-0.8)	0.5 (0.3-0.7)
1 year	1.8 (1.2-2.4)	1.5 (0.7-2.3)	1.5 (1.1-1.9)	2.0 (1.4-2.6)	1.8 (1.2-2.4)	1.6 (1.2-2.0)	2.4 (1.8-3.0)	1.8 (1.6-2.0)
5 year	5.2 (4.2-6.2)		4.9 (3.9-5.9)	4.9 (3.7-6.1)	4.0 (2.8-5.2)	4.1 (3.3-4.9)	5.3 (4.3-6.3)	4.8 (4.4-5.2)
9 years	7.7 (6.1-9.3)		9.0 (7.2-10.8)	8.7 (5.4-12.0)	7.3 (4.8-9.8)	8.3 (6.5-10.1)	9.0 (7.0-11.0)	8.6 (7.8-9.4)
<b>PCI</b>								
30 days	1.6 (1.2-2.0)	2.6 (1.6-3.6)	0.6 (0.2-1.0)	1.9 (1.3-2.5)	1.2 (0.6-1.8)	1.1 (0.7-1.5)	1.3 (0.9-1.7)	1.3 (1.1-1.5)
1 year	11.6 (10.4-12.8)	5.6 (4.0-7.2)	5.9 (4.9-6.9)	10.3 (8.9-11.7)	7.6 (6.2-9.0)	10.0 (8.8-11.2)	7.8 (6.8-8.8)	8.8 (8.4-9.2)
5 year	19.5 (17.7-21.3)		11.8 (10.4-13.2)	15.5 (13.7-17.3)	14.3 (12.1-16.5)	16.4 (14.8-18.0)	13.3 (11.9-14.7)	15.0 (14.4-15.6)
9 years	24.6 (21.7-27.5)		16.9 (14.7-19.1)	21.5 (17.8-25.2)	19.0 (15.9-22.1)	20.9 (18.7-23.1)	17.5 (15.0-20.0)	19.7 (18.7-20.7)
<b>CABG</b>								
30 days	0.1 (-0.1-0.3)	0.2 (0.0-0.4)	0.5 (0.3-0.7)	0.5 (0.1-0.9)	1.6 (1.0-2.2)	0.4 (0.2-0.6)	0.5 (0.3-0.7)	0.5 (0.3-0.7)
1 year	2.2 (1.6-2.8)	1.9 (1.1-2.7)	3.6 (2.8-4.4)	5.2 (4.2-6.2)	6.9 (5.5-8.3)	2.4 (1.8-3.0)	3.0 (2.4-3.6)	3.4 (3.2-3.6)
5 year	4.8 (3.8-5.8)		6.6 (5.6-7.6)	8.0 (6.6-9.4)	10.2 (8.4-12.0)	4.7 (3.7-5.7)	5.4 (4.4-6.4)	6.0 (5.6-6.4)
9 years	8.5 (6.3-10.7)		9.3 (7.7-10.9)	11.9 (7.8-16.0)	11.7 (9.5-13.9)	6.3 (5.1-7.5)	7.4 (5.8-9.0)	8.4 (7.6-9.2)
<b>PCI or CABG</b>								
30 days	1.8 (1.4-2.2)	1.1 (0.5-1.7)	1.0 (0.6-1.4)	2.5 (1.9-3.1)	2.7 (1.9-3.5)	1.5 (1.1-1.9)	1.7 (1.3-2.1)	1.7 (1.5-1.9)
1 year	13.7 (12.5-14.9)	7.3 (5.7-8.9)	9.1 (7.9-10.3)	15.2 (13.6-16.8)	13.9 (12.1-15.7)	12.1 (10.9-13.3)	10.3 (9.1-11.5)	11.9 (11.3-12.5)
5 year	23.2 (21.4-25.0)		17.3 (15.7-18.9)	22.4 (20.4-24.4)	23.1 (20.6-25.6)	20.0 (18.2-21.8)	17.8 (16.2-19.4)	20.0 (19.2-20.8)
9 years	30.5 (27.2-33.8)		24.7 (22.2-27.2)	30.2 (25.3-35.1)	28.9 (25.4-32.4)	25.7 (23.3-28.1)	22.0 (19.8-24.2)	26.3 (25.1-27.5)
<b>Fatal or non-fatal CVA</b>								
30 days	0.0 (0.0-0.0)	no event	0.0 (0.0-0.0)	no event	0.1 (-0.1-0.3)	0.0 (0.0-0.0)	0.0 (0.0-0.0)	0.0 (0.0-0.0)
1 year	0.2 (0.0-0.4)	0.1 (-0.1-0.3)	0.5 (0.3-0.7)	0.3 (0.1-0.5)	0.4 (0.0-0.8)	0.4 (0.2-0.6)	0.3 (0.1-0.5)	0.3 (0.3-0.3)
5 year	1.3 (0.7-1.9)		2.5 (1.7-3.3)	1.2 (0.6-1.8)	1.4 (0.6-2.2)	1.9 (1.3-2.5)	2.1 (1.5-2.7)	1.8 (1.6-2.0)
9 years	2.3 (1.3-3.3)		5.2 (3.6-6.8)	2.4 (0.8-4.0)	4.3 (1.8-6.8)	5.6 (3.8-7.4)	4.0 (2.2-5.8)	4.4 (3.6-5.2)

**Table 4. Unstable angina, no previous surgery.**

	ERI	GJNH	GRI	LCCL	RIA	WGH	WIG	Total
	n=3179	n=72	n=1970	n=1753	n=1962	n=2439	n=2363	n=13738
	% (95% CI)	% (95% CI)	% (95% CI)	% (95% CI)	% (95% CI)	% (95% CI)	% (95% CI)	% (95% CI)
<b>Dead</b>								
30 days	1.5 (1.1-1.9)	no event	0.9 (0.5-1.3)	1.5 (0.9-2.1)	1.0 (0.6-1.4)	1.6 (1.0-2.2)	1.5 (1.1-1.9)	1.3 (1.1-1.5)
1 year	4.6 (3.8-5.4)	no event	2.2 (1.6-2.8)	5.4 (4.4-6.4)	2.9 (2.1-3.7)	4.6 (3.8-5.4)	3.3 (2.5-4.1)	3.9 (3.5-4.3)
5 year	13.7 (12.3-15.1)		9.3 (7.7-10.9)	14.0 (12.0-16.0)	10.6 (8.8-12.4)	13.6 (12.0-15.2)	12.0 (10.4-13.6)	12.4 (11.8-13.0)
9 years	23.5 (20.4-26.6)		16.1 (13.4-18.8)	26.4 (22.3-30.5)	16.1 (12.6-19.6)	24.4 (21.9-26.9)	20.1 (17.0-23.2)	21.6 (20.2-23.0)
<b>Fatal or non-fatal AMI</b>								
30 days	1.7 (1.3-2.1)	no event	1.5 (0.9-2.1)	2.2 (1.6-2.8)	1.3 (0.7-1.9)	2.2 (1.6-2.8)	2.7 (2.1-3.3)	1.9 (1.7-2.1)
1 year	4.7 (3.9-5.5)	no event	2.9 (2.1-3.7)	4.8 (3.8-5.8)	3.5 (2.7-4.3)	5.3 (4.3-6.3)	5.2 (4.2-6.2)	4.5 (4.1-4.9)
5 year	10.7 (9.3-12.1)		6.7 (5.3-8.1)	9.5 (7.9-11.1)	7.5 (5.9-9.1)	10.7 (9.3-12.1)	9.5 (8.1-10.9)	9.3 (8.7-9.9)
9 years	14.7 (12.3-17.1)		10.0 (7.6-12.4)	14.7 (11.4-18.0)	14.1 (9.8-18.4)	15.4 (13.2-17.6)	13.0 (10.8-15.2)	13.7 (12.7-14.7)
<b>PCI</b>								
30 days	2.7 (2.1-3.3)	2.8 (-0.9-6.5)	2.5 (1.7-3.3)	2.8 (2.0-3.6)	1.6 (1.0-2.2)	2.4 (1.8-3.0)	2.8 (2.2-3.4)	2.5 (2.3-2.7)
1 year	12.2 (11.0-13.4)	9.7 (2.8-16.6)	8.5 (7.3-9.7)	11.5 (9.9-13.1)	6.4 (5.2-7.6)	11.4 (10.0-12.8)	9.1 (7.9-10.3)	10.1 (9.5-10.7)
5 year	20.4 (18.8-22.0)		14.8 (13.0-16.6)	18.1 (16.1-20.1)	11.4 (9.6-13.2)	17.2 (15.6-18.8)	14.6 (13.0-16.2)	16.4 (15.6-17.2)
9 years	26.8 (23.7-29.9)		19.0 (16.3-21.7)	24.5 (21.0-28.0)	17.2 (13.3-21.1)	23.9 (21.4-26.4)	19.6 (16.9-22.3)	22.2 (21.0-23.4)
<b>CABG</b>								
30 days	0.5 (0.3-0.7)	no event	1.2 (0.8-1.6)	1.9 (1.3-2.5)	1.5 (0.9-2.1)	1.0 (0.6-1.4)	1.0 (0.6-1.4)	1.1 (0.9-1.3)
1 year	2.0 (1.4-2.6)	no event	3.5 (2.7-4.3)	5.2 (4.2-6.2)	4.5 (3.5-5.5)	3.2 (2.4-4.0)	3.6 (2.8-4.4)	3.5 (3.1-3.9)
5 year	4.2 (3.4-5.0)		6.4 (5.2-7.6)	7.4 (6.0-8.8)	7.3 (5.9-8.7)	5.6 (4.6-6.6)	5.6 (4.6-6.6)	5.9 (5.5-6.3)
9 years	5.4 (4.2-6.6)		8.1 (6.3-9.9)	9.1 (7.1-11.1)	8.9 (6.9-10.9)	6.5 (5.3-7.7)	7.4 (5.8-9.0)	7.3 (6.7-7.9)
<b>PCI or CABG</b>								
30 days	3.2 (2.6-3.8)	2.8 (-0.9-6.5)	3.7 (2.9-4.5)	4.6 (3.6-5.6)	3.2 (2.4-4.0)	3.3 (2.5-4.1)	3.7 (2.9-4.5)	3.6 (3.2-4.0)
1 year	13.8 (12.6-15.0)	9.7 (2.8-16.6)	11.3 (9.9-12.7)	15.9 (14.1-17.7)	10.4 (9.0-11.8)	14.0 (12.6-15.4)	12.2 (10.8-13.6)	13.0 (12.4-13.6)
5 year	23.0 (21.2-24.8)		19.3 (17.3-21.3)	23.4 (21.2-25.6)	16.4 (14.4-18.4)	21.0 (19.2-22.8)	19.1 (17.3-20.9)	20.5 (19.7-21.3)
9 years	29.7 (26.6-32.8)		25.1 (22.0-28.2)	29.7 (26.4-33.0)	23.2 (19.1-27.3)	28.2 (25.7-30.7)	25.7 (22.6-28.8)	26.9 (25.7-28.1)
<b>Fatal or non-fatal CVA</b>								
30 days	no event	no event	0.1 (-0.1-0.3)	0.1 (-0.1-0.3)	0.1 (-0.1-0.3)	0.1 (-0.1-0.3)	0.3 (0.1-0.5)	0.1 (0.1-0.1)
1 year	0.7 (0.3-1.1)	no event	0.4 (0.2-0.6)	0.3 (0.1-0.5)	0.6 (0.2-1.0)	0.8 (0.4-1.2)	0.9 (0.5-1.3)	0.6 (0.4-0.8)
5 year	2.7 (1.9-3.5)		2.6 (1.6-3.6)	1.9 (1.1-2.7)	2.1 (1.3-2.9)	2.9 (2.1-3.7)	2.8 (2.0-3.6)	2.6 (2.2-3.0)
9 years	5.9 (3.9-7.9)		6.1 (3.9-8.3)	3.8 (1.6-6.0)	3.1 (1.5-4.7)	4.0 (2.8-5.2)	4.4 (3.0-5.8)	4.6 (3.8-5.4)

## Cardiac Surgery

**Table 5. Primary Isolated CABG.**

Maximum follow up at GJNH was 2065 days, maximum follow up at RHH was 1735 days.

	ERI	GJNH	GRI	RHH	RIA	WIG	Total
	n=5240	n=1164	n=4669	n=189	n=4100	n=6252	n=21614
	% (95% CI)	% (95% CI)	% (95% CI)	% (95% CI)	% (95% CI)	% (95% CI)	% (95% CI)
<b>Dead</b>							
30 days	2.1 (1.7-2.5)	1.5 (0.7-2.3)	2.7 (2.3-3.1)	0.5 (-0.5-1.5)	2.5 (2.1-2.9)	2.2 (1.8-2.6)	2.3 (2.1-2.5)
1 year	4.1 (3.5-4.7)	2.8 (1.8-3.8)	4.7 (4.1-5.3)	1.1 (-0.5-2.7)	4.2 (3.6-4.8)	4.4 (3.8-5.0)	4.2 (4.0-4.4)
5 year	10.8 (9.8-11.8)	8.7 (6.5-10.9)	12.6 (11.6-13.6)		12.1 (10.9-13.3)	11.9 (11.1-12.7)	11.7 (11.3-12.1)
9 years	22.0 (20.2-23.8)		19.6 (18.2-21.0)		23.9 (21.9-25.9)	23.4 (21.8-25.0)	22.7 (21.9-23.5)
<b>Fatal or non-fatal AMI</b>							
30 days	0.8 (0.6-1.0)	0.9 (0.3-1.5)	1.1 (0.7-1.5)	0.5 (-0.5-1.5)	0.4 (0.2-0.6)	0.3 (0.1-0.5)	0.9 (0.7-1.1)
1 year	1.7 (1.3-2.1)	1.0 (0.4-1.6)	1.9 (1.5-2.3)	1.1 (-0.3-2.5)	2.0 (1.6-2.4)	1.9 (1.5-2.3)	1.8 (1.6-2.0)
5 year	4.1 (3.5-4.7)	2.8 (1.2-4.4)	4.8 (4.0-5.6)		5.7 (4.9-6.5)	4.7 (4.1-5.3)	4.6 (4.2-5.0)
9 years	7.8 (6.6-9.0)		8.2 (7.0-9.4)		9.2 (7.8-10.6)	8.6 (7.6-9.6)	8.4 (7.8-9.0)
<b>Angiography</b>							
30 days	0.2 (0.0-0.4)	no event	0.2 (0.0-0.4)	no event	0.1 (-0.1-0.3)	0.1 (0.1-0.1)	0.1 (0.1-0.1)
1 year	3.5 (2.9-4.1)	1.3 (0.7-1.9)	2.4 (2.0-2.8)	1.1 (-0.3-2.5)	3.8 (3.2-4.4)	3.0 (2.6-3.4)	3.0 (2.8-3.2)
5 year	11.1 (10.1-12.1)	5.6 (3.4-8)	9.1 (8.1-10.1)		13.5 (12.3-14.7)	7.3 (6.7-7.9)	10.5 (10.1-10.9)
9 years	19.5 (17.7-21.3)		17.0 (15.4-18.6)		21.0 (19.0-23.0)	10.9 (10.1-11.7)	17.9 (17.1-18.7)
<b>PCI/CABG</b>							
30 days	0.1 (0.1-0.1)	no event	0.1 (0.1-0.1)	no event	0.0 (0.0-0.0)	0.3 (0.1-0.5)	0.1 (0.1-0.1)
1 year	1.5 (1.1-1.9)	0.3 (-0.1-0.7)	0.7 (0.5-0.9)	no event	1.1 (0.7-1.5)	1.5 (1.1-1.9)	1.2 (1.0-1.4)
5 year	4.3 (3.7-4.9)	2.2 (0.6-3.8)	2.7 (2.1-3.3)		3.9 (3.3-4.5)	4.0 (3.4-4.6)	3.6 (3.4-3.8)
9 years	8.3 (7.1-9.5)		5.1 (4.1-6.1)		6.5 (5.3-7.7)	6.2 (5.4-7.0)	6.4 (5.8-7.0)
<b>Fatal or non-fatal CVA</b>							
30 days	0.1 (-0.1-0.3)	0.2 (0.0-0.4)	0.2 (0.0-0.4)	0.5 (-0.5-1.5)	0.1 (-0.1-0.3)	0.1 (0.1-0.1)	0.2 (0.2-0.2)
1 year	0.9 (0.7-1.1)	0.4 (0.0-0.8)	0.8 (0.6-1.0)	1.6 (-0.2-3.4)	0.6 (0.4-0.8)	0.8 (0.6-1.0)	0.8 (0.6-1.0)
5 year	2.3 (1.9-2.7)	2.2 (0.6-3.8)	3.7 (3.1-4.3)		2.8 (2.2-3.4)	3.1 (2.7-3.5)	2.9 (2.7-3.1)
9 years	4.2 (3.4-5.0)		6.5 (5.5-7.5)		5.5 (4.3-6.7)	6.0 (5.0-7.0)	5.5 (5.1-5.9)

**Table 6. Primary isolated valve procedures**

	ERI	GJNH	GRI	RHH	RIA	WIG	Total
	n=1376	n=98	n=829	n=48	n=740	n=1334	n=4425
	% (95% CI)	% (95% CI)	% (95% CI)	% (95% CI)	% (95% CI)	not available	% (95% CI)
<b>Dead</b>							
30 days	3.7 (2.7-4.7)	2.0 (-0.7-4.7)	4.1 (2.7-5.5)	4.2 (-1.5-9.9)	4.9 (3.3-6.5)	3.3 (2.3-4.3)	3.8 (3.2-4.4)
1 year	8.7 (7.1-10.3)	10.3 (4.2-16.4)	8.5 (6.5-10.5)	4.2 (-1.5-9.9)	9.7 (7.5-11.9)	6.5 (5.1-7.9)	8.1 (7.3-8.9)
5 year	21.1 (18.7-23.5)	21.2 (10.6-31.8)	22.1 (18.8-25.4)		19.8 (16.7-22.9)	20.5 (18.0-23.0)	20.9 (19.5-22.3)
9 years	34.3 (30.6-38.0)		37.6 (32.7-42.5)		35.9 (30.0-41.8)	35.0 (31.1-38.9)	35.4 (33.2-37.6)
<b>Fatal or non-fatal AMI</b>							
30 days	0.5 (0.1-0.9)	no events	0.1- (0.1-0.3)	no events	0.5 (-0.1-1.1)	0.5 (0.1-0.9)	0.4 (0.2-0.6)
1 year	1.1 (0.5-1.7)	no events	0.6 (0.0-1.2)	no events	1.1 (0.3-1.9)	0.9 (0.3-1.5)	0.9 (0.7-1.1)
5 year	2.5 (1.5-3.5)	no events	1.9 (0.7-3.1)		3.5 (1.9-5.1)	2.1 (1.1-3.1)	2.4 (1.8-3.0)
9 years	5.1 (3.1-7.1)		5.9 (2.6-9.2)		8.4 (4.5-12.3)	5.0 (3.0-7.0)	5.7 (4.5-6.9)
<b>Repeat valve</b>							
30 days	0.1 (-0.1-0.3)	no events	0.1 (-0.1-0.3)	no events	0.1 (-0.1-0.3)	0.2 (0.0-0.4)	0.2 (0.0-0.4)
1 year	0.8 (0.4-1.2)	no events	0.6 (0.0-1.2)	no events	0.7 (0.1-1.3)	0.8 (0.4-1.2)	0.7 (0.5-0.9)
5 year	2.3 (1.3-3.3)	no events	1.9 (0.9-2.9)		1.1 (0.3-1.9)	2.7 (1.5-3.9)	2.1 (1.5-2.7)
9 years	6.0 (3.6-8.4)		5.4 (2.3-8.5)		2.2 (0.0-4.4)	4.8 (3.0-6.6)	4.8 (3.6-6.0)
<b>Fatal or non-fatal CVA</b>							
30 days	0.1 (-0.1-0.3)	no events	0.3 (-0.1-0.7)	no events	0.1 (-0.1-0.3)	0.2 (0.0-0.4)	0.1 (-0.1-0.3)
1 year	1.5 (0.9-2.1)	no events	1.5 (0.7-2.3)	2.2 (-2.1-6.5)	0.4 (-0.2-1.0)	1.1 (0.5-1.7)	1.2 (0.8-1.6)
5 year	5.4 (4.0-6.8)	5.7 (-2.3-13.7)	7.3 (5.1-9.5)		4.4 (2.4-6.4)	4.0 (2.8-5.2)	5.1 (4.3-5.9)
9 years	8.3 (5.9-10.7)		10.5 (7.6-13.4)		5.2 (3.0-7.4)	7.2 (4.7-9.7)	7.8 (6.4-9.2)

**Table 7. Primary combined CABG/valve procedures**

	ERI	GJNH	GRI	RHH	RIA	WIG	Total
	n=788	n58=	n=663	n=30	n=459	n=835	n=2833
	% (95% CI)	% (95% CI)	% (95% CI)	% (95% CI)	% (95% CI)	% (95% CI)	% (95% CI)
<b>Dead</b>							
30 days	3.6 (2.2-5.0)	1.7 (-1.6-5.0)	8.4 (6.2-10.6)	6.7 (-2.3-15.7)	8.9 (6.4-11.4)	3.6 (2.4-4.8)	7.7 (6.7-8.7)
1 year	16.1 (13.6-18.6)	10.3 (2.5-18.1)	14.5 (11.8-17.2)	16.7 (3.4-30.0)	14.6 (11.5-17.7)	13.8 (11.4-16.2)	14.7 (13.3-16.1)
5 years	32.3 (28.6-36.0)	20.5 (5.2-35.8)	32.1 (28.0-36.2)		25.5 (21.0-30.0)	27.7 (24.4-31.0)	29.5 (27.5-31.5)
9 years	47.4 (41.5-53.3)		49.4 (43.7-55.1)		49.9 (41.3-58.5)	47.5 (41.8-53.2)	48.0 (44.9-51.1)
<b>Fatal or non-fatal AMI</b>							
30 days	1.4 (0.6-2.2)	no event	0.9 (0.1-1.7)	no event	1.6 (0.4-2.8)	1.3 (0.5-2.1)	1.5 (1.1-1.9)
1 year	2.4 (1.2-3.6)	1.8 (-1.7-5.3)	3.9 (2.3-5.5)	3.8 (-3.6-11.2)	2.8 (1.2-4.4)	2.8 (1.6-4.0)	3.0 (2.4-3.6)
5 years	6.7 (4.5-8.9)	8.8 (-4.9-22.5)	8.1 (5.6-10.6)		7.7 (4.6-10.8)	6.1 (4.3-7.9)	7.0 (5.8-8.2)
9 years	12.4 (7.7-17.1)		13.9 (9.8-18.0)		14.1 (6.5-21.7)	11.4 (7.3-15.5)	12.6 (10.2-15.0)
<b>PCI/CABG</b>							
30 days	0.1 (-0.1-0.3)	no event	no event	no event	no event	0.4 (0.0-0.8)	0.1 (-0.1-0.3)
1 year	1.7 (0.5-2.9)	no event	0.2 (-0.2-0.6)	no event	0.3 (-0.3-0.9)	0.8 (0.2-1.4)	0.4 (0.2-0.6)
5 years	4.0 (1.6-6.4)	2.4 (-2.3-7.1)	0.9 (-0.3-2.1)		2.1 (0.3-3.9)	3.3 (1.7-4.9)	2.1 (1.5-2.7)
9 years	0.1 (-0.1-0.3)		4.0 (1.1-6.9)		8.7 (0.7-16.7)	3.3 (1.7-4.9)	4.4 (2.8-6.0)
<b>Repeat valve</b>							
30 days	1.0 (0.2-1.8)	no event	no event	no event	no event	0.3 (-0.1-0.7)	0.1 (-0.1-0.3)
1 year	2.2 (1.0-3.4)	no event	0.3 (-0.1-0.7)	no event	no event	0.7 (0.1-1.3)	0.6 (0.4-0.8)
5 years	4.2 (1.8-6.6)	no event	2.0 (0.6-3.4)		0.9 (-0.1-1.9)	1.6 (0.6-2.6)	1.7 (1.1-2.3)
9 years	1.0 (0.2-1.8)		3.6 (1.4-5.8)		2.7 (-0.8-6.2)	1.6 (0.6-2.6)	2.9 (1.9-3.9)
<b>Fatal or non-fatal CVA</b>							
30 days	0.3 (-0.1-0.7)	no event	no event	no event	no event	0.6 (0.0-1.2)	0.3 (0.1-0.5)
1 year	1.8 (0.8-2.8)	1.9 (-1.8-5.6)	1.0 (0.2-1.8)	no event	1.7 (0.5-2.9)	2.2 (1.2-3.2)	1.7 (1.1-2.3)
5 years	6.6 (4.4-8.8)	4.3 (-1.6-10.2)	5.6 (3.2-8.0)		6.6 (3.5-9.7)	6.4 (4.4-8.4)	6.2 (5.0-7.4)
9 years	8.2 (5.3-11.1)		10.2 (6.1-14.3)		17.8 (10.2-25.4)	8.3 (5.6-11.0)	10.1 (8.1-12.1)

## **Appendix 1 – PCI/angiography steering committee membership**

Kevin Jennings	Aberdeen Royal Infirmary
Jim McGowan	Ayr Hospital
Graham Tait	Dumfries and Galloway Royal Infirmary
Hany Eteiba	Glasgow Royal Infirmary
Rachel Slack	Greater Glasgow & Clyde NHS
Alastair Pell	Monklands Hospital, Airdrie
John Irving	Ninewells Hospital, Dundee
Stephen Leslie	Raigmore Hospital, Inverness
Andy Flapan	Royal Infirmary, Edinburgh
Jill Pell (Chairman)	University of Glasgow
Keith Oldroyd	Golden Jubilee, Glasgow

### IT support and Data Coordinators

Irene Anderson	Aberdeen Royal Infirmary
Tanya Templeton	Ayr Hospital
Heather Fitzpatrick	Dumfries and Galloway Royal Infirmary
Michael Brown	Golden Jubilee Hospital, Glasgow
Lesley Geddes	Ninewells Hospital, Dundee
Ing-Marie Logie	Raigmore Hospital, Inverness
Sandra Cartledge	Royal Infirmary, Edinburgh
Jim Christie	Western Infirmary, Glasgow

## **Appendix 2 – Cardiac surgery steering committee membership**

Hussein El-Shafei	Aberdeen Royal Infirmary
Rachel Slack	Greater Glasgow & Clyde NHS
Mike Higgins	Golden Jubilee National Hospital/ Glasgow Royal Infirmary
Andrew Murday	Golden Jubilee National Hospital/ Glasgow Royal Infirmary
Arul Arangannal	Ross Hall Hospital (non-NHS)
Vipin Zamvar	Royal Infirmary, Edinburgh
Geoff Berg	Golden Jubilee National Hospital/ Western Infirmary, Glasgow
Jill Pell (Chairman)	University of Glasgow

### IT support and Data Coordinators

Lisa Lawman	Aberdeen Royal Infirmary
Sandra Cartledge	Royal Infirmary, Edinburgh
Margaret Kinnaird	Golden Jubilee National Hospital, Glasgow